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L35
             1 S 12150-46-8/RN
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L37
             1 S 87-60-5/RN
L38
             1 S 372-39-4/RN
L39
             1 S 626-43-7/RN
L40
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             1 S 1013-88-3/RN
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L62 56 S L57 OR L61
L63 1 S L62 AND L1
L64 55 S L62 AND (1840-2002)/PRY,AY,PY
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L25
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L27
                 STR
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE L28 SCR 1918 L30 STR

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NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

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NUMBER OF NODES IS 2

STEREO ATTRIBUTES: NONE

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NODE ATTRIBUTES:

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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 3

STEREO ATTRIBUTES: NONE

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=> fil hcap

FILE 'HCAPLUS' ENTERED AT 11:43:26 ON 06 OCT 2006

=>d 164 1-55 ibib abs hitstr hitind

L64 ANSWER 1 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2004:534164 HCAPLUS Full-text

DOCUMENT NUMBER: 141:90877

TITLE: Process for preparation of substituted

halogenated anilines

INVENTOR(S):
Smith, Jonathan O.; Petruska, Melissa A.;

Longlet, Jon J.

PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 11 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND DATE		APPLICATION NO.	DATE
WO 2004054961	A1	20040701		2003 1216
CA, CH, CN, ES, FI, GB, KE, KG, KP, MG, MK, MN,	CO, CR, GD, GE, KR, KZ, MW, MX,	CU, CZ, GH, GM, LC, LK, MZ, NI,	BA, BB, BG, BR, BW, BY, DE, DK, DM, DZ, EC, EE, HR, HU, ID, IL, IN, IS, LR, LS, LT, LU, LV, MA, NO, NZ, OM, PG, PH, PL, SL, SY, TJ, TM, TN, TR,	EG, JP, MD, PT,
TZ, UA, UG, RW: BW, GH, GM, AM, AZ, BY, CZ, DE, DK, NL, PT, RO, GN, GQ, GW,	US, UZ, KE, LS, KG, KZ, EE, ES, SE, SI, ML, MR,	VC, VN, MW, MZ, MD, RU, FI, FR, SK, TR, NE, SN,	YU, ZA, ZM, ZW SD, SL, SZ, TZ, UG, ZM, TJ, TM, AT, BE, BG, CH, GB, GR, HU, IE, IT, LU, BF, BJ, CF, CG, CI, CM, TD, TG	ZW, CY, MC,
AU 2003298961	A1	20040709	AU 2003-298961	2003 1216
EP 1575898	A1	20050921	< EP 2003-813132	2003 1216
			GB, GR, IT, LI, LU, NL, RO, MK, CY, AL, TR, BG,	
· · · · ·	Α	20051108	BR 2003-17311	2003 1216
CN 1723189	A	20060118	< CN 2003-80105713	2003 1216
JP 2006509821	Т2	20060323		2003 1216
us 2006116533	A1	20060601	< US 2005-537801	2005 0607
PRIORITY APPLN. INFO.:			< US 2002-433847P	2002 1216
			< WO 2003-EP14354	N 2003 1216

OTHER SOURCE(S): CASREACT 141:90877; MARPAT 141:90877

AB A process for preparation of substituted halogenated anilines from substituted halogenated 1-chlorobenzenes comprises (a) reacting a substituted halogenated 1-chlorobenzene selectively with an imine in the presence of a transition

metal catalyst complex and a base to form an N-aryl imine; (b) hydrolyzing the N-aryl imine; and (c) isolating the substituted halogenated aniline. Thus, heating 2,6-dichlorotoluene, benzophenone imine,

tris(dibenzylideneacetone)dipalladium(0), 1,1'-

bis (diphenylphosphino) ferrocene, and Na tert-butoxide in xylene, and hydrolyzing the resulting reaction product gave 3-chloro-2-methylaniline in 75.5% yield.

IT 87-60-5P, 3-Chloro-2-methylaniline 372-39-4P,

3,5-Difluoroaniline 626-43-7P, 3,5-Dichloroaniline

(preparation of substituted halogenated anilines from substituted chlorobenzenes)

RN 87-60-5 HCAPLUS

CN Benzenamine, 3-chloro-2-methyl- (9CI) (CA INDEX NAME)

RN 372-39-4 HCAPLUS

CN Benzenamine, 3,5-difluoro- (9CI) (CA INDEX NAME)

RN 626-43-7 HCAPLUS

CN Benzenamine, 3,5-dichloro- (9CI) (CA INDEX NAME)

IT 108-70-3, 1,3,5-Trichlorobenzene 118-69-4,

2,6-Dichlorotoluene 1435-43-4, 1-Chloro-3,5-

difluorobenzene

(preparation of substituted halogenated anilines from substituted chlorobenzenes)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

RN 118-69-4 HCAPLUS

CN Benzene, 1,3-dichloro-2-methyl- (9CI) (CA INDEX NAME)

RN 1435-43-4 HCAPLUS

CN Benzene, 1-chloro-3,5-difluoro- (7CI, 8CI, 9CI) (CA INDEX NAME)

IC ICM C07C209-52

ICS C07C211-45; B01J023-44

CC 45-4 (Industrial Organic Chemicals, Leather, Fats, and Waxes)

Section cross-reference(s): 25

IT 87-60-5P, 3-Chloro-2-methylaniline 372-39-4P,

3,5-Difluoroaniline **626-43-7P**, 3,5-Dichloroaniline

(preparation of substituted halogenated anilines from substituted chlorobenzenes)

IT 108-70-3, 1,3,5-Trichlorobenzene 118-69-4,

2,6-Dichlorotoluene 1013-88-3, Benzophenone imine

1435-43-4, 1-Chloro-3,5-difluorobenzene

(preparation of substituted halogenated anilines from substituted chlorobenzenes)

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L64 ANSWER 2 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:971587 HCAPLUS Full-text

DOCUMENT NUMBER: 140:4846

TITLE: Process for preparation of

1,3,5-triaminobenzene and its hydrolysis to

high purity phloroglucinol

INVENTOR(S): Ismaili, Lhassane; Refouvelet, Bernard;

Xicluna, Alain

PATENT ASSIGNEE(S): Seranalis, Fr.

SOURCE: Fr. Demande, 21 pp.

CODEN: FRXXBL

DOCUMENT TYPE:

Patent French

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA:	CENT	NO.			KIN	D -	DATE			APE	LIC	CAT	ION	NO.		DATI
FR	2840	- 608			A1		2003	1212		FR	200	02-	7177			2002
	0040							•=••			<	-				0611
	2840 2487				B1 AA			0701 1218		CA	200	1 2 -	2487	073		
CA	2407	913			^^		2003	1210		CA	200	03-	2401	913		2003
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WO	2003	1041	94		A1		2003	1218		WO	200	03-	FR17	03		2003
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AU	2003				A1			1222		AU	200	03-:	2605	77		
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																0606
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EP	1511				B1											
	R:				DE,											
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BR	2003		но, 86	ЭK	Α		2005	0329		RR	200	13-1	1178	6		
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US	2005	1652	56		A1		2005	0728		US	200	03-	5177	16		
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CN	1668	586			Α		2005	0914					8166	31		
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AT	3092	14			E		2005	1115		ΑT	200)3-	7571	19		
																2003

						0606
JP 2005534659	Т2	20051117	JP	< 2004-511264		
						2003 0606
				<		
ES 2252690	Т3	20060516	ES	2003-3757119		
						2003
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				<		
PRIORITY APPLN. INFO.:			FR	2002-7177	Α	
						2002
						0611
				<		
			WO	2003-FR1703	W	
						2003
	•					0606

OTHER SOURCE(S):

CASREACT 140:4846; MARPAT 140:4846

GI

$$X^1$$
 X^2 I

AB 1,3,5-Triaminobenzene is prepared by treatment of I (A = halo, NH2; X1, X2 = halo) with NH3 in the presence of a copper salt or oxide catalyst at 150-250° and >35 bar; subsequent hydrolysis by HCl gives phloroglucinol. Thus, reaction of 1,3,5- trichlorobenzene with NH3 in the presence of copper iodide at 180°/40 bar, followed by hydrolysis with HCl at 120°, gave phloroglucinol in 40% yield.

IT 108-70-3, 1,3,5-Trichlorobenzene 626-43-7,

3,5-Dichloroaniline

(1,3,5-benzenetriamine and phloroglucinol via copper iodide catalyzed amination of halobenzenes and subsequent hydrolysis)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

RN 626-43-7 HCAPLUS

CN Benzenamine, 3,5-dichloro- (9CI) (CA INDEX NAME)

IC ICM C07C211-49

ICS C07C039-10; A61K031-05; A61P021-00; A61P025-08

CC 25-10 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

IT 108-70-3, 1,3,5-Trichlorobenzene 626-43-7,

3,5-Dichloroaniline

(1,3,5-benzenetriamine and phloroglucinol via copper iodide catalyzed amination of halobenzenes and subsequent hydrolysis)

REFERENCE COUNT:

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L64 ANSWER 3 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

7

ACCESSION NUMBER:

2003:929516 HCAPLUS Full-text

DOCUMENT NUMBER:

139:381248

TITLE:

Preparation of 2,4,5-trifluoro-3-methyl-6-

nitrobenzoic acid

INVENTOR(S):

Hayashi, Kazuhiko

PATENT ASSIGNEE(S):

Asahi Glass Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 10 pp.

SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. '	DATE
 JP 2003335730	A2	20031128	JP 2002-138590	2002
				2002 0514
			<	
PRIORITY APPLN. INFO.:			JP 2002-138590	
				2002
			•	0514

OTHER SOURCE(S):

MARPAT 139:381248

Title compound (I), useful as an intermediate for quinolone bactericides, is prepared from 2,6-dichlorotoluene (II). 2,3,6-Trifluorotoluene (prepared from II in 4 steps) was acylated by AcCl in the presence of AlCl3 at 105° for 1 h to give 83% 2,3,6-trifluoro-5-acetyltoluene, which was nitrated by KNO3/H2SO4 and treated with aqueous NaClO under reflux for 2 h to give I.

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IT 76350-70-4P

(preparation of trifluoromethylnitrobenzoic acid from dichlorotoluene as intermediate for quinolone bactericides)

RN 76350-70-4 HCAPLUS

CN Benzenamine, 2,4-difluoro-3-methyl- (9CI) (CA INDEX NAME)

IT 118-69-4, 2,6-Dichlorotoluene

(preparation of trifluoromethylnitrobenzoic acid from dichlorotoluene as intermediate for quinolone bactericides)

RN 118-69-4 HCAPLUS

CN Benzene, 1,3-dichloro-2-methyl- (9CI) (CA INDEX NAME)

IC ICM C07C201-12

ICS C07C201-08; C07C205-58

CC 25-17 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 1

IT 29682-46-0P, 2,6-Dichloro-3-nitrotoluene 76350-70-4P

79562-49-5P, 2,6-Difluoro-3-nitrotoluene 83277-23-0P,

2,4-Dichloro-3-methylbenzoic acid 99938-06-4P,

2,6-Dichloro-3-trichloromethyltoluene 103877-66-3P

119916-24-4P 119916-25-5P, 2,3,6-Trifluorotoluene 174637-91-3P

181216-49-9P 625124-34-7P 625124-35-8P 625124-36-9P

625124-37-0P 625124-38-1P 625124-40-5P

(preparation of trifluoromethylnitrobenzoic acid from

dichlorotoluene as intermediate for quinolone bactericides)

IT 118-69-4, 2,6-Dichlorotoluene

(preparation of trifluoromethylnitrobenzoic acid from dichlorotoluene as intermediate for quinolone bactericides)

L64 ANSWER 4 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2003:696882 HCAPLUS Full-text

DOCUMENT NUMBER:

139:230615

TITLE:

Preparation of benzofurans and benzothiophenes

useful in the treatment of hyperproliferative

disorders

INVENTOR(S):

Zhang, Chengzhi; Burke, Michael; Chen, Zhi; Dumas, Jacques; Fan, Dongping; Fan, Jianmei; Hatoum-Mokdad, Holia; Jones, Benjamin D.; Ladouceur, Gaetan; Lee, Wendy; Phillips,

Barton

PATENT ASSIGNEE(S):

Bayer Pharmaceuticals Corporation, USA

SOURCE:

PCT Int. Appl., 138 pp.

DOCUMENT TYPE:

CODEN: PIXXD2 Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	TENT NO.		KIN		DATE		APPLICATION NO.			DATE			
wo	 2003072561		A1		2003	0904	,	WO 2	003-	US53	96		2003 0221
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	PT, S	Y, KG, K, EE, E, SI, L, MR,	ES, SK,	FI,	FR, BF,	GB, BJ,	GR,	HU,	IE,	IT,	LU,	MC,	NL,
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EP	1487813		A1		2004	1222	:	EP 2		7092	65		2003 0221
EP	1487813 R: AT, B MC, P			DK,		FR,		GR,	IT,				
CN	EE, H 1639146		Α									·	2003 0221
СИ	1639145		Α		2005	0713			 003-	8044	42		
7.0	2006507215		m2		2006	0200			- -	-710	67		2003 0221
JP	2006507215		Т2		2006	0302	ı			5712	67		2003 0221
BR	2003007905		Α		2006	0404	;		 003-	7905			2003
ZA	2004007482		Α		2005	0919	;		 004 <i>-</i>	7482			2004
NO	2004003952		Α		2004	1022	1		 004-	3952			2004 0917 2004 0921

PRIORITY APPLN. INFO.:

US 2002-359011P 2002 0222 <--

US 2002-399886P

2002 0731

<--

WO 2003-US5396

2003 0221

OTHER SOURCE(S):

MARPAT 139:230615

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT

Title compds. I [wherein X = O, S; R1 = H, alkyl, (CO)alkyl, benzoyl; R2 =AB (un) substituted Ph, naphthyl, (un) substituted heterocyclyl; R3 = H, OH, CN, alkyl, alkoxy, halo, haloalkyl, haloalkoxy; R4 = piperonyl, (un) substituted heterocyclyl, Ph and naphthyl; R5, R6 = independently H, OH, CN, alkyl, alkoxy, halo, haloalkyl and haloalkoxy; and their pharmaceutically acceptable salts or esters] were prepared as antitumor agents for treatment of hyperproliferative disorders. For example, II was prepared from 2-bromo-3'methoxy-acetophenone by cyclocondensation with acetamide at 110° for 40 h, demethylation in DCM at room temperature for 2 h, reaction with paraformaldehyde in CH3CN/TEA in the presence of MgCl2 at reflux for 17 h, reaction with nitroethane in AcOH/AcONa at reflux for 17 h, and K2CO3catalyzed cyclocondensation of the resultant nitrile with 2-methoxyphenacyl bromide in anhydrous DMF. III was prepared, in 28.2% yield, by Pd-cross coupling of (3-amino-6-iodo-1-benzothiophene-2-yl)(2,4dichlorophenyl) methanone with pyridine-3-boronic acid in 1,2-dimethoxyethane at 80° for 18 h. I showed a significant inhibition of tumor cell proliferation in the adherent tumor cell proliferation assay (no data). Thus, I and their formulations are useful as antitumor agents (no data). TΤ

108-70-3, 1,3,5-Trichlorobenzene 591-19-5,

3-Bromoaniline 626-01-7, 3-Iodoaniline

(preparation of benzofurans and benzothiophenes for treatment of hyper-proliferative disorders)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

RN 591-19-5 HCAPLUS

CN Benzenamine, 3-bromo- (9CI) (CA INDEX NAME)

RN 626-01-7 HCAPLUS CN Benzenamine, 3-iodo- (9CI) (CA INDEX NAME)

IC ICM C07D307-82 ICS C07D333-66; C07D413-04; C07D417-04; C07D405-04; C07D409-04; C07D409-14; C07D405-14; C07D405-10; A61K031-343; A61P035-00 CC 27-9 (Heterocyclic Compounds (One Hetero Atom)) Section cross-reference(s): 1, 63 IT **108-70-3**, 1,3,5-Trichlorobenzene 109-85-3, 2-Methoxyethylamine 110-91-8, Morpholine, reactions 121-71-1, 1-(3-Hydroxyphenyl)ethanone 288-32-4, Imidazole, reactions 350-03-8, 3-Acetylpyridine 372-48-5, 2-Fluoropyridine 497-25-6, 2-Oxazolidone 580-51-8, 3-Phenylphenol **591-19-5**, 3-Bromoaniline 591-20-8, 3-Bromophenol 625-45-6, Methoxyacetic acid 626-01-7, 3-Iodoaniline 626-02-8, 3-Iodophenol 696-40-2, 3-Iodobenzylamine 823-78-9, 1-Bromo-3-bromomethylbenzene 1692-25-7, Pyridine-3-boronic acid 1711-09-7, 3-Bromobenzovl chloride 2142-63-4, 2476-37-1 3-Bromoacetophenone 2725-82-8, 1-Bromo-3ethylbenzene 2905-24-0, 3-Bromobenzenesulfonyl chloride 4023-34-1, Cyclopropanecarbonyl chloride 4252-78-2, 2-Chloro-1-(2,4-dichlorophenyl)ethanone 5000-65-7, 2-Bromo-3'-methoxyacetophenone 6320-01-0, 3-Bromobenzenethiol 6972-41-4, 3-Diethylaminopropionic acid 7797-83-3, Benzo[1,3]dioxole-4-carboxaldehyde 16419-60-6, 2-Methylphenylboronic acid 16420-13-6, Dimethylthiocarbamoyl chloride 25015-63-8, Pinacolborane 30318-99-1, 3-Bromo-4-methylthiophene 30418-59-8, 3-Aminophenylboronic acid 31938-07-5, 3-Bromophenylacetonitrile 31949-21-0, 33733-73-2, 3-Bromothioanisole 2-Methoxyphenacyl bromide 38749-79-0, 3-Bromo-2-methylpyridine 57044-25-4, (R) - (+) - Glycidol61397-54-4, 2-Bromo-1-(2-chloro-4fluorophenyl)ethanone 61858-38-6, 3-Iodophenacyl bromide 73183-34-3 78887-39-5, 3-Acetamidobenzeneboronic acid 105942-08-3, 4-Bromo-2-fluorobenzonitrile 112279-61-5, 4-Amino-2,5-difluorobenzonitrile 158063-66-2, 4-Trifluoromethylnicotinic acid 454473-64-4, Methyl 2-hydroxy-4-(1H-pyrrol-1-yl)benzenecarboxylate (preparation of benzofurans and benzothiophenes for treatment of hyper-proliferative disorders) REFERENCE COUNT: THERE ARE 4 CITED REFERENCES AVAILABLE

EFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L64 ANSWER 5 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2002:308237 HCAPLUS Full-text

DOCUMENT NUMBER: 137:33373

TITLE: Sequential Photostimulated Reactions of

Trimethylstannyl Anions with Aromatic Compounds Followed by Palladium-Catalyzed

Cross-Coupling Processes

AUTHOR(S): Corsico, Eduardo F.; Rossi, Roberto A.

CORPORATE SOURCE: INFIQC, Departamento de Quimica Organica,

Facultad de Ciencias Quimicas, Universidad Nacional de Cordoba, Cordoba, 5000, Argent.

SOURCE: Journal of Organic Chemistry (2002),

67(10), 3311-3316

CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:33373

AB The photostimulated reactions of several mono-, di-, and trichloroarenes and aryltrimethylammonium salts with Me3Sn- ions in liquid ammonia gave good yields of stannanes by the SRN1 mechanism. If the chloroarenes are not soluble in liquid ammonia, diglyme is another solvent to perform these reactions. The stannanes thus obtained can be arylated by further reaction with haloarenes through palladium-catalyzed reactions. If the palladium-catalyzed reaction is performed with a chloroiodoarene as substrate, the stannane reacts faster by the C-I bond via chemoselective cross-coupling reaction to give a chloroarene as product, which can be further arylated by a consecutive SRN1-Stille reaction or react with other substrates by another palladium-catalyzed reaction. These sequential reactions can also be performed with substrates with two leaving groups to give products in high yields.

IT 106-47-8, 4-Chloroaniline, reactions

(photochem. trimethylstannylation of)

RN 106-47-8 HCAPLUS

CN Benzenamine, 4-chloro- (9CI) (CA INDEX NAME)

IT 108-70-3, 1,3,5-Trichlorobenzene

(sequential photostimulated reactions of trimethylstannyl anions with aromatic compds. followed by palladium-catalyzed cross-coupling processes)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

CC 29-8 (Organometallic and Organometalloidal Compounds) Section cross-reference(s): 25

IT 106-47-8, 4-Chloroaniline, reactions

(photochem. trimethylstannylation of)

90-13-1, 1-Chloronaphthalene 98-04-4, Phenyltrimethylammonium IT iodide 108-70-3, 1,3,5-Trichlorobenzene 541-73-1,

1,3-Dichlorobenzene 623-03-0, p-Chlorobenzonitrile 1066-45-1,

Chlorotrimethylstannane

(sequential photostimulated reactions of trimethylstannyl anions with aromatic compds. followed by palladium-catalyzed cross-coupling processes)

REFERENCE COUNT:

54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L64 ANSWER 6 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2002:255497 HCAPLUS Full-text

DOCUMENT NUMBER: 137:124949

TITLE: A newly developed synthesis of

1,3,5-trichlorobenzene (sym. TCB) from aniline

AUTHOR(S): Mehilal; Salunke, R. B.; Agrawal, J. P. CORPORATE SOURCE: High Energy Materials Research Laboratory,

Pune, 411 021, India

SOURCE: Indian Journal of Chemistry, Section B:

> Organic Chemistry Including Medicinal Chemistry (2002), 41B(3), 604-607 CODEN: IJSBDB; ISSN: 0376-4699

PUBLISHER: National Institute of Science Communication

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:124949

1,3,5-Trichlorobenzene (sym. TCB) was synthesized by diazotization of 2,4,6trichloroaniline (sym. TCA) (by converting aniline into anilinium chloride followed by its chlorination) in the presence of H2SO4/NaNO2 and H3PO2. The reaction parameters for the synthesis of both sym. TCA as well as sym. TCB also were established to get better purity and higher yields. Different reaction parameters for the nitration of sym. TCB to get 1,3,5-trichloro-2,4,6-trinitrobenzene (TCTNB) and its amination to get pure 1,3,5-triamino-2,4,6-trinitrobenzene (TATB) also were established. A comparison of properties of TATB obtained from imported sym. TCB and from laboratory prepared sym. TCB validates the product.

IT **634-93-5P**, 2,4,6-Trichloroaniline

(preparation of 1,3,5-trichlorobenzene from aniline)

RN 634-93-5 HCAPLUS

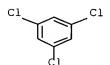
CN Benzenamine, 2,4,6-trichloro- (9CI) (CA INDEX NAME)

ΙT 108-70-3P, 1,3,5-Trichlorobenzene

(preparation of 1,3,5-trichlorobenzene from aniline)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)



CC 25-3 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 45, 50

IT 142-04-1P, Anilinium chloride **634-93-5P**,

2,4,6-Trichloroaniline

(preparation of 1,3,5-trichlorobenzene from aniline)

IT 108-70-3P, 1,3,5-Trichlorobenzene

(preparation of 1,3,5-trichlorobenzene from aniline)

REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE

FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L64 ANSWER 7 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2001:72699 HCAPLUS Full-text

DOCUMENT NUMBER: 134:280671

TITLE: Synthesis of 2,3-dihydroindoles, indoles, and

anilines by transition metal-free amination of

aryl chlorides

AUTHOR(S): Beller, Matthias; Breindl, Claudia; Riermeier,

Thomas H.; Tillack, Annegret

CORPORATE SOURCE: Institut fuer Organische Katalyseforschung,

Universitaet Rostock e. V., Rostock, 18055,

Germany

SOURCE: Journal of Organic Chemistry (2001),

66(4), 1403-1412

CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 134:280671

AB . Aliphatic and aromatic amines RNH2 [R = Ph, 2-MeOC6H4, 4-FC6H4, 3-F3CC6H4, 4-PhC6H4, 2-FC6H4, 1-anthracenyl, Bu, Me3C, Ph(CH2)2, EtO(CH2)3] react with 2-and 3-chlorostyrenes in the presence of potassium tert-butoxide to give N-substituted 2,3-dihydroindoles in good yields. The combination of this domino-amination protocol with a suitable dehydrogenation reaction gives access to pharmacol. interesting indoles in a one-pot procedure. Overall product yields of N-substituted indoles >50% are obtained by this method starting from com. available substrates. In addition to the intramol. base-promoted amination of aromatic C-Cl bonds, metal-free intermol. aminations of aryl chlorides, e.g., PhCl, with primary and secondary amines, e.g., piperidine, are described. The use of potassium tert-butoxide as base allows the synthesis of various anilines in good to excellent yields. Due to the formation of aryne intermediates, either N-substituted anilines or metasubstituted anilines are produced with excellent selectivities.

IT 348-54-9, 2-Fluoroaniline 371-40-4,

4-Fluoroaniline

(preparation of 2,3-dihydroindoles and indoles by palladium-free amination-cyclization or amination of chlorostyrenes)

RN 348-54-9 HCAPLUS

CN Benzenamine, 2-fluoro- (9CI) (CA INDEX NAME)

371-40-4 HCAPLUS RN CN Benzenamine, 4-fluoro- (9CI) (CA INDEX NAME)

108-70-3, 1,3,5-Trichlorobenzene ΙT

> (regioselective preparation of meta-substituted anilines by palladium-free amination of aryl chlorides)

RN 108-70-3 HCAPLUS

Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME) CN

CC 27-11 (Heterocyclic Compounds (One Hetero Atom))

90-04-0, 2-Methoxyaniline 92-67-1, 4-Phenylaniline ΙT 98-16-8, 3-(Trifluoromethyl)aniline 348-54-9, 2-Fluoroaniline **371-40-4**, 4-Fluoroaniline 610-49-1, 1-Aminoanthracene 28469-92-3, 2,6-Dichlorostyrene

> (preparation of 2,3-dihydroindoles and indoles by palladium-free amination-cyclization or amination of chlorostyrenes)

95-50-1, 1,2-Dichlorobenzene 95-72-7 100-46-9, Benzylamine, ΙT reactions 100-61-8, N-Methylaniline, reactions 103-49-1, Dibenzylamine 108-70-3, 1,3,5-Trichlorobenzene 108-90-7, Chlorobenzene, reactions 109-89-7, Diethylamine,

reactions 110-89-4, Piperidine, reactions 110-91-8, Morpholine, reactions 111-92-2, Di-n-butylamine 541-73-1,

1,3-Dichlorobenzene 766-51-8, 1-Chloro-2-methoxybenzene 2845-89-8, 1-Chloro-3-methoxybenzene 54423-01-7

(regioselective preparation of meta-substituted anilines by

palladium-free amination of aryl chlorides)

REFERENCE COUNT: 69

THERE ARE 69 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L64 ANSWER 8 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 2000:824207 HCAPLUS Full-text

DOCUMENT NUMBER:

133:362614

TITLE: Preparation of substituted anilines by hydrogenolysis of the corresponding

phenylhydrazines.

Ancel, Jean-Erick; Perrin-Janet, Gilles; INVENTOR(S):

Leroy, Pierre

PATENT ASSIGNEE(S):

Aventis CropScience SA, Fr. PCT Int. Appl., 12 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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	20000		05		A1		2000	1123	1	WO :	2000-	EP45	95		2000 0511
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	RW:	GH, CY,	GM, DE, BF,	KE, DK,	LS, ES,	MW, FI,	SD, FR,	SL, GB,	SZ, GR,	TZ IE	, UG, , IT, , GW,	ZW, LU,	MC,	NL,	PT,
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EP	14373	343			A2		2004	0714	;		< 2004-	4152			2000 0511
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				<		
ZA 2001008578	Α	20030120	ZA	2001-8578		
						2001
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				<		
US 6509503	В1	20030121	US	2002-30324		
						2002
						0503
				<- -		
PRIORITY APPLN. INFO.:			GB	1999-11180	Α	
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			ΕP	2000-936766	А3	
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						0511
				<		
			WO	2000-EP4595	W	
						2000
						0511
				<		

OTHER SOURCE(S): GI

CASREACT 133:362614; MARPAT 133:362614

NH2

AB Title compds. (I; R1, R2 = halo) were prepared by hydrogenolysis of the corresponding phenylhydrazines in the presence of a metal or a metal compound under reducing conditions. Thus, 3,5-dichlorophenylhydrazine was heated with wet Raney Ni in MeOH at 60° for 2 h to give 100% 3,5-dichloroaniline.

IT 626-43-7P, 3,5-Dichloroaniline

(preparation of substituted anilines by hydrogenolysis of the corresponding phenylhydrazines)

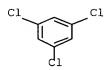
RN 626-43-7 HCAPLUS

CN Benzenamine, 3,5-dichloro- (9CI) (CA INDEX NAME)

IT 108-70-3, 1,3,5-Trichlorobenzene

(preparation of substituted anilines by hydrogenolysis of the corresponding phenylhydrazines) $\,$

RN 108-70-3 HCAPLUS



ICM C07C209-42 IC ICS C07C211-52

25-4 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds) CC Section cross-reference(s): 5

626-43-7P, 3,5-Dichloroaniline IT

> (preparation of substituted anilines by hydrogenolysis of the corresponding phenylhydrazines)

IT 108-70-3, 1,3,5-Trichlorobenzene 7440-02-0, Nickel, reactions

> (preparation of substituted anilines by hydrogenolysis of the corresponding phenylhydrazines)

REFERENCE COUNT:

5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L64 ANSWER 9 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2000:699230 HCAPLUS Full-text

DOCUMENT NUMBER:

133:252148

TITLE:

Preparation of 3,5-difluoroaniline from

1,3,5-trichlorobenzene via fluorination and

amination.

INVENTOR(S):

Cherney, Lee I.; Mettille, Francis J.

PATENT ASSIGNEE(S):

BASF Corporation, USA U.S., 12 pp.

SOURCE:

DOCUMENT TYPE:

CODEN: USXXAM

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6127577	Α	20001003	US 2000-500368	
				2000
			<	0208
CA 2398650	AA	20010816	CA 2001-2398650	
				2001
			< 	0201
WO 2001058846	A1	20010816	WO 2001-EP1079	
				2001
				0201

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,

MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG EP 1254103 20021106 A1 EP 2001-919251 2001 0201 <--EP 1254103 20040526 В1 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR BR 2001008169 Α 20030225 BR 2001-8169 2001 0201 <--JP 2003534242 Т2 20031118 JP 2001-558398 2001 0201 <--AT 267796 20040615 E AT 2001-919251 2001 0201 <--PRIORITY APPLN. INFO.: US 2000-500368 2000 0208 <--WO 2001-EP1079 2001 0201 <---

OTHER SOURCE(S): CASREACT 133:252148

AB 3,5-Difluoroaniline was prepared by fluorination of 1,3,5-trichlorobenzene to make 1,3,5-trifluorobenzene and amination of the latter. Thus, 1,3,5-trifluorobenzene and NH3 were autoclaved in diethylene glycol at 230° and 960 psig for 10 h to give 95% conversion to 3,5-difluoroaniline. Apparatus diagrams are given.

IT 372-39-4P, 3,5-Difluoroaniline

(preparation of 3,5-difluoroaniline from 1,3,5-trichlorobenzene via fluorination and amination)

RN 372-39-4 HCAPLUS

CN Benzenamine, 3,5-difluoro- (9CI) (CA INDEX NAME)

IT 108-70-3, 1,3,5-Trichlorobenzene

(preparation of 3,5-difluoroaniline from 1,3,5-trichlorobenzene via fluorination and amination)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

IC ICM C07C209-10

INCL 564407000

CC 25-3 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds) Section cross-reference(s): 45, 47

IT 372-39-4P, 3,5-Difluoroaniline

(preparation of 3,5-difluoroaniline from 1,3,5-trichlorobenzene via fluorination and amination)

IT 108-70-3, 1,3,5-Trichlorobenzene

(preparation of 3,5-difluoroaniline from 1,3,5-trichlorobenzene via fluorination and amination)

REFERENCE COUNT:

THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L64 ANSWER 10 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2000:498573 HCAPLUS Full-text

DOCUMENT NUMBER:

133:252090

TITLE:

A mild one-pot deamination of aromatic amines bearing electron-withdrawing groups. Calcium hypophosphite as a dediazonation reagent in

nonaqueous media

AUTHOR(S): CORPORATE SOURCE: Mitsuhashi, H.; Kawakami, T.; Suzuki, H. School of Science, Department of Chemistry,

Kwansei Gakuin University, Uegahara,

Nishinomiya, 662-8501, Japan

SOURCE:

Tetrahedron Letters (2000), 41(29),

5567-5569

CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: LANGUAGE:

Journal English

OTHER SOURCE(S):

CASREACT 133:252090

AB Diazotization of aromatic amines with NO2 in MeCN at -20°, followed by treatment with Ca(H2PO2)2 in the presence of MeOH and catalytic amts. of FeSO4 at room temperature results in the reductive removal of the amino group, giving the corresponding arenes in moderate to good yield.

IT 106-40-1, 4-Bromoaniline 634-93-5,

2,4,6-Trichloroaniline

(deamination of aromatic amines with calcium hypophosphite as dediazonation reagent in nonaq. media)

RN 106-40-1 HCAPLUS

CN Benzenamine, 4-bromo- (9CI) (CA INDEX NAME)

CN Benzenamine, 2,4,6-trichloro- (9CI) (CA INDEX NAME)

IT 108-70-3P, 1,3,5-Trichlorobenzene

(deamination of aromatic amines with calcium hypophosphite as dediazonation reagent in nonaq. media)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

$$C1$$
 $C1$

CC 25-6 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

IT 97-02-9, 2,4-Dinitroaniline 100-01-6, 4-Nitroaniline, reactions 106-40-1, 4-Bromoaniline 108-69-0, 3,5-Dimethylaniline

121-87-9, 2-Chloro-4-nitroaniline 603-83-8, 2-Methyl-3-

nitroaniline 634-93-5, 2,4,6-Trichloroaniline

17420-30-3, 2-Cyano-4-nitroaniline

(deamination of aromatic amines with calcium hypophosphite as dediazonation reagent in nonaq. media)

IT 88-72-2P, 1-Methyl-2-nitrobenzene 98-95-3P, Nitrobenzene, preparation 99-65-0P, 1,3-Dinitrobenzene 108-38-3P,

1,3-Dimethylbenzene, preparation 108-70-3P,

3

1,3,5-Trichlorobenzene 108-86-1P, Bromobenzene, preparation

121-73-3P, 1-Chloro-3-nitrobenzene 619-24-9P,

3-Nitrobenzonitrile

(deamination of aromatic amines with calcium hypophosphite as dediazonation reagent in nonaq. media)

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L64 ANSWER 11 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1999:505666 HCAPLUS Full-text

DOCUMENT NUMBER:

131:144417

TITLE:

N-(Hetero)aryl-3,4-(cyclo)alkoxybenzamides and

analogs useful as tumor necrosis factor and

c-AMP phosphodiesterase inhibitors

INVENTOR(S):

Fenton, Garry; Morley, Andrew David;

Palfreyman, Malcolm Norman; Ratcliffe, Andrew James; Harp, Brian William; Thurairatnam,

Sukanthini; Vacher, Bernard Yvon Jack; Ashton,

Michael John; Cook, David Charles; Hills, Susan Jacqueline; McFarlane, Ian Michael;

Vicker, Nigel

PATENT ASSIGNEE(S): Rhone-Poulenc Rorer Ltd., UK

SOURCE:

U.S., 48 pp.

DOCUMENT TYPE:

CODEN: USXXAM
Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	
us 5935978	Α	19990810	US 1993-98178	1000
			<- -	1993 0728
ZA 9200547	А	19930503	ZA 1992-547	1992
NO 0212061	7 . 1	1000000	<	0127
WO 9212961	AI	19920806	WO 1992-GB153	1992 0128
W: AU, CA, CS,	FI, HU	, JP, KR,	< NO, PL, RU, US	
RW: AT, BE, CH, AU 9211881	DE, DK Al	, ES, FR, 19920827	GB, GR, IT, LU, MC, AU 1992-11881	
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		19951130 19931118	·	
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JP 06504782	12	19940602	JP 1992-503280	1992 0128
PL 169994	В1	19960930	< PL 1992-300142	0.20
		•		1992 0128
CZ 281894	В6	19970312	< CZ 1993-1528	1000
			<	1992 0128
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ZA 9305448	Α	19940519	ZA 1993-5448	1993
ES 2227519	Т3	20050401	<	0728
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FI 9500375	Α	19950127	FI	1995-375		
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US 5679696	A	19971021	US	1995-484805		
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us 5698711	Α	19971216	US	1995-487377		
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50/050/	_			<		
US 5840724	A	19981124	US	1997-881888		
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US 6255326	B1	20010703	US	1999-239075		
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05 6096768	A	20000801	US	1999-301877		1000
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PRIORITY APPLN. INFO.:			CD	< 1991-1777	70	
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			GB	1992-16005	Α	
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GB	1993-10938	Α	
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GB	1993-11281	Α	
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GB	1993-14847	Α	
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US	1993-98178	А3	
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US	1995-484805	A3	
			1995
			0607

OTHER SOURCE(S):

MARPAT 131:144417

R1 Z1

23 R3

AΒ Title compds. (I) [R1 = lower alkyl; R2 = (un)substituted cycloalkyl, (un) substituted cycloalkenyl, (un) substituted or oxidized cyclothioalkyl, or (un) substituted or oxidized cyclothioalkenyl; R3 = (un) substituted (hetero)aryl; Z, Z1, Z2 = independently O or S; Z3 = C(:Z)NH] and their Noxides and salts were prepared for pharmaceutical use as tumor necrosis factor and cAMP phosphodiesterase inhibitors. Thus, 3-cyclopentyloxy-4methoxybenzoyl chloride (preparation given) in CH2Cl2 was added dropwise to 2,6-difluoroaniline in triethylamine and CH2Cl2 and refluxed for 4 h to yield N-(2,6-difluorophenyl)-3-cyclopentyloxy-4-methoxybenzamide (II). Compds. ofthe invention were tested for inhibitory effects on PDE activity and eosinophil superoxide generation, effects on tracheal smooth muscle contractility, in vivo bronchodilator actions and antigen(ovalbamin)-induced eosinophilia, in vitro inhibitory effects on TNF- α release by human monocytes, and inhibitory effects on antigen-induced bronchoconstriction in conscious guinea-pigs and serum TNF- α levels in LPS-challenged mice. Compds. showed 10,000-fold to 50-fold more selectivity for cAMP phosphodiesterase IV than cyclic nucleotide phosphodiesterase types I, III, or V and have IC50 values ranging from 0.1 nM to 40 μM for PDE activity. At concns. from 5 x 10-9 M to 10-5M, preferably 5x10-9 to 10-7, compds. produced about 50% relaxation of guinea-pig tracheal strips. When administered at EDs of 4 to 1000 $\mu g/kg$, preferably 4 to 50 μ g/kg, compds. produced 30% to 90% decrease in bronchospasm without any significant effect on blood pressure. At oral doses of 1 to 50 mg/kg, preferably 1 to 10 mg/kg, and inhaled doses of 4 to 1000 µg/kg.

preferably 4 to 50 µg/kg, compds. inhibited by at least 50% ovalbumin-induced eosinophilia in guinea-pigs. Compds. produced 50% inhibition of LPS-induced TNF- α release from human PBMs at concns. of 10-9M to 10-6M, preferably 10-9M to 10-8 M. At doses of 1 to 1000 µg/kg (i.t.), preferably 1 to 20 µg/kg (i.t.), compds. inhibited antigen-induced bronchoconstriction by up to 80%. Compds. inhibited LPS-induced serum TNF- α at doses of 10 to 10,000 µg/kg, preferably 10 to 250 µg/kg. Compds. showed very low mammalian toxicity levels. Twenty-one compns. of the title compds. for gelatin capsules or dry powder inhalers were also prepared

IT 95-51-2, 2-Chloroaniline 118-69-4,

2,6-Dichlorotoluene 5509-65-9, 2,6-Difluoroaniline
 (reactant; preparation of N-(hetero)aryl 3,4-(cyclo)alkoxybenzamides
 and analogs useful as tumor necrosis factor and c-AMP
 phosphodiesterase inhibitors)

RN 95-51-2 HCAPLUS

CN Benzenamine, 2-chloro- (9CI) (CA INDEX NAME)

RN 118-69-4 HCAPLUS

CN Benzene, 1,3-dichloro-2-methyl- (9CI) (CA INDEX NAME)

RN 5509-65-9 HCAPLUS

CN Benzenamine, 2,6-difluoro- (9CI) (CA INDEX NAME)

IC A61K031-44; C07D213-75

INCL 514352000

CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 1, 63

TT 75-26-3, 2-Bromopropane **95-51-2**, 2-Chloroaniline 96-40-2, 3-Chloro-1-cyclopentene 100-09-4, p-Anisic acid 106-94-5 108-85-0, Cyclohexyl bromide 108-89-4, 4-Picoline 109-65-9, 1-Butyl bromide **118-69-4**, 2,6-Dichlorotoluene

```
137-43-9, Cyclopentyl bromide 139-85-5, 3,4-
     Dihydroxybenzaldehyde 356-80-9, 1-Chloromethyl-2,2,3,3-
     tetrafluorocyclobutane
                             497-36-9
                                        504-24-5, 4-Aminopyridine
    531-37-3, 2-Methoxyphenyl benzoate
                                         619-14-7,
     3-Hydroxy-4-nitrobenzoic acid 621-59-0, 3-Hydroxy-4-
    methoxybenzaldehyde
                          693-58-3, 1-Bromononane 721-09-5, Methyl
                                         937-14-4, 3-Chloroperbenzoic
    3-amino-4-trifluoromethoxybenzoate
           1687-53-2, 5-Amino-2-methoxyphenol
                                                2457-47-8,
    3,5-Dichloropyridine
                           3334-05-2, 3-Hydroxythiophane
                                                           3814-30-0,
    Cyclopentylmethyl bromide
                                4659-45-4, 2,6-Dichlorobenzoyl
    chloride 5509-65-9, 2,6-Difluoroaniline 6702-50-7,
    Methyl 3-hydroxy-4-methoxybenzoate 6921-34-2, Benzylmagnesium
              7051-34-5, Cyclopropylmethyl bromide 13378-44-4
    chloride
    14719-83-6, Methyl 4-chloro-3-nitrobenzoate 18063-02-0,
    2,6-Difluorobenzoyl chloride 20511-15-3, 4-Chloro-3-pyridylamine
    20973-90-4, 2,6-Dichlorophenylacetaldehyde 31329-64-3,
    4-Amino-3,5-dimethylisoxazole 33216-52-3, 3,4,5-
    Trichloropyridine
                        36367-85-8, 4-(p-Toluenesulfonoxy)-1-
    cyclopentene
                   36779-79-0
                               38222-83-2, 2,6-Bis(tert-butyl)-4-
    methylpyridine
                     39920-37-1, 2,6-Dichlorophenyl isocyanate
    61277-90-5
                72093-04-0, 3-Chloro-4-methylpyridine
                                                        84539-34-4,
    4-Amino-3,5-dibromopyridine
                                 105252-95-7, 4-Amino-2,3,5-
                        107724-65-2, 4-Bromo-2-hydroxythioanisole
    trifluoropyridine
    131408-41-8
                 135637-42-2
                                135637-44-4
                                             155997-09-4
    159782-23-7, 3-(2-Fluorocyclopentyloxy)-4-methoxybenzoyl chloride
    159783-11-6, 3-Cyclopentylthio-4-methoxybenzoyl chloride
    159783-15-0, 3-Cyclopentyloxy-4, N-dimethoxy-N-methylbenzamide
    159783-38-7, 3-Isopropoxy-4-(methylthio)benzoyl chloride
    159783-44-5, 4-Bromo-2-prop-2-yloxythioanisole 159783-47-8,
     3-(3-Methyl-2-butenyloxy)-4-methoxybenzoic acid
                                                     159783-48-9.
     3-Isopropoxy-4-difluoromethoxybenzoic acid 159783-54-7
    159783-55-8
                  159783-73-0
                                159783-76-3
                                              159783-79-6,
    2,6-Dichlorobenzyltriphenylphosphonium bromide
                                                     159783-80-9.
    2,6-Difluorobenzyltriphenylphosphonium bromide
                                                     159783-82-1,
    4-(Difluoromethoxy)-3-isopropoxybenzaldehyde 166742-05-8
                  192376-90-2, 3-Cyclopentyloxy-4-methoxyphenol
    171802-54-3
    236422-25-6
                  236422-26-7
                                236422-32-5
        (reactant; preparation of N-(hetero)aryl 3,4-(cyclo)alkoxybenzamides
       and analogs useful as tumor necrosis factor and c-AMP
       phosphodiesterase inhibitors)
REFERENCE COUNT:
                              THERE ARE 21 CITED REFERENCES AVAILABLE
                        21
                              FOR THIS RECORD. ALL CITATIONS AVAILABLE
                              IN THE RE FORMAT
L64 ANSWER 12 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
                        1998:736128 HCAPLUS Full-text
DOCUMENT NUMBER:
TITLE:
                        Oxidative Chlorination, Desulfonation, or
                        Decarboxylation To Synthesize Pharmaceutical
                        Intermediates: 2,6-Dichlorotoluene,
                        2,6-Dichloroaniline, and 2,6-Dichlorophenol
                        Mukhopadhyay, S.; Chandalia, S. B.
AUTHOR(S):
CORPORATE SOURCE:
                        Department of Chemical Technology, University
                        of Mumbai, Matunga Mumbai, 400 019, India
SOURCE:
                        Organic Process Research & Development (
                        1999), 3(1), 10-16
                        CODEN: OPRDFK; ISSN: 1083-6160
PUBLISHER:
                        American Chemical Society
DOCUMENT TYPE:
                        Journal
```

English

LANGUAGE:

AB An alternative manufacturing process scheme was developed for 2,6-dichlorotoluene, 2,6-dichloroaniline, and 2,6-dichlorophenol, involving oxidative chlorination of the p-substituted benzoic or benzenesulfonic acid followed by decarboxylation or desulfonation. Oxidative chlorination of p-methylbenzenesulfonic acid, p-methylbenzoic acid, p-aminobenzoic acid, and p-hydroxybenzoic acid, and subsequent desulfonation or decarboxylation gave a 60-75% yield of the desired products.

IT 56961-25-2P, 4-Amino-3,5-dichlorobenzoic acid

(intermediate; in preparation of dichloroaniline)

RN 56961-25-2 HCAPLUS

CN Benzoic acid, 4-amino-3,5-dichloro- (6CI, 9CI) (CA INDEX NAME)

IT 118-69-4P, 2,6-Dichlorotoluene 608-31-1P,

2,6-Dichloroaniline

(preparation by oxidative chlorination of acid derivative)

RN 118-69-4 HCAPLUS

CN Benzene, 1,3-dichloro-2-methyl- (9CI) (CA INDEX NAME)

RN 608-31-1 HCAPLUS

CN Benzenamine, 2,6-dichloro- (9CI) (CA INDEX NAME)

CC 45-4 (Industrial Organic Chemicals, Leather, Fats, and Waxes)

IT 56961-25-2P, 4-Amino-3,5-dichlorobenzoic acid

(intermediate; in preparation of dichloroaniline)

IT 87-65-0P, 2,6-Dichlorophenol 118-69-4P,

2,6-Dichlorotoluene 608-31-1P, 2,6-Dichloroaniline

(preparation by oxidative chlorination of acid derivative)

REFERENCE COUNT:

THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L64 ANSWER 13 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:585961 HCAPLUS Full-text

DOCUMENT NUMBER: 129:189110

TITLE: Preparation of 3,5-difluoraniline from

3,5-difluorochlorobenzene.

INVENTOR(S): Pfirmann, Ralf; Krause, Stefan

PATENT ASSIGNEE(S): Clariant G.m.b.H., Germany

SOURCE: Ger., 8 pp.

CODEN: GWXXAW

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

P.	ATENT NO.	KII		APPLICATION NO.	DATE
D:	 E 19720341	C	1 19980827	DE 1997-19720341	1997 0515
				<	0313
E	P 878461	A	2 19981118	EP 1998-107389	
_					1998
					0423
				<	
E	P 878461	A:	3 19990901		
E	P 878461	B	20020410		
				GB, GR, IT, LI, LU,	NL, SE,
			, LT, LV, FI,		
J	P 10330334	A:	2 19981215	JP 1998-130504	
					1998
					0513
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U.	s 5965775	A	19991012	US 1998-78012	
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DDTADT	my appin the	70 -		<	
PRIORI	TY APPLN. INF			DE 1997-19720341	
					1997 0515
				<	0313
				`	

OTHER SOURCE(S):

CASREACT 129:189110

AB 3,5-Difluoroaniline (I) was prepared by treatment of 3,5-difluorochlorobenzene (II) with NH3 in the presence of >1 of Cu, Fe, Co, Ni, Cr, Mo, or Zn at 100-250°. Thus, 0.05 mol II was autoclaved with 0.5 mol 25% aqueous NH3, 0.015 mol CuCl, and 0.015 mol Cu at 150° for 24 h to give 78% I.

IT 372-39-4P, 3,5-Difluoroaniline

(preparation of 3,5-difluoraniline from 3,5-difluorochlorobenzene)

RN 372-39-4 HCAPLUS

CN Benzenamine, 3,5-difluoro- (9CI) (CA INDEX NAME)

(preparation of 3,5-difluoraniline from 3,5-difluorochlorobenzene) RN 108-70-3 HCAPLUS

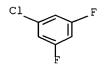
CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

IT 1435-43-4P, 3,5-Difluorochlorobenzene

(preparation of 3,5-difluoraniline from 3,5-difluorochlorobenzene)

RN 1435-43-4 HCAPLUS

CN Benzene, 1-chloro-3,5-difluoro- (7CI, 8CI, 9CI) (CA INDEX NAME)



IC ICM C07C211-52

ICS C07C209-10

CC 25-4 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

IT 372-39-4P, 3,5-Difluoroaniline

(preparation of 3,5-difluoraniline from 3,5-difluorochlorobenzene)

IT 108-70-3, 1,3,5-Trichlorobenzene

(preparation of 3,5-difluoraniline from 3,5-difluorochlorobenzene)

IT 1435-43-4P, 3,5-Difluorochlorobenzene

(preparation of 3,5-difluoraniline from 3,5-difluorochlorobenzene)

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L64 ANSWER 14 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

3

ACCESSION NUMBER:

1998:239214 HCAPLUS Full-text

DOCUMENT NUMBER:

128:282833

TITLE:

Preparation of 4-phenyl-2-thiazoleamines as

corticotropin releasing factor antagonists

INVENTOR(S):

Fontaine, Evelyne; Gully, Danielle; Roger,

Pierre; Wermuth, Camille Georges

PATENT ASSIGNEE(S):

Sanofi, Fr.; Fontaine, Evelyne; Gully,

Danielle; Roger, Pierre; Wermuth, Camille

Georges

SOURCE:

PCT Int. Appl., 62 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

		-							
WO 9815543 A1					A1	1998041	6 WO	1997-FR1788	
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								<	1007
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		CZ,	DE,	DK,	EE,	ES, FI, GB	, GE, G	H, HU, ID, IL, I	S, JP,
								S, LT, LU, LV, M	
								O, RU, SD, SE, S S, UZ, VN, YU, Z	
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	RW:							T, BE, CH, DE, D	
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FR	2754		C1,			GN, ML, MR 1998041		1996-12256	
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	2267				AA			1997-2267154	
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BR	9712	507			Α	1999122	1 BR	1997-12507	1007
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	3290				B2	2002061			
AT	2163	15			E	2002051	5 AT	1997-944937	1997
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US	6344	470			В1	2002020	5 US	1999-269516	
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ИО	3127	25			В1	2002062	4		

MX 9903241	Α	20000731	ΜX	1999-3241		
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US 2002137740	A1	20020926	US	2001-998949		
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PRIORITY APPLN. INFO.:			FR	1996-12256	Α	
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			WO	1997-FR1788	W	
						1997
						1007
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			110	1999-269516	A1	
			0.5	1999-209310	VI	1000
						1999
						0402
				<		

OTHER SOURCE(S):

MARPAT 128:282833

GI

AB Title compds. [I; R1, R2 = halo, (hydroxy)alkyl, alkoxy(carbonyl), CONH2, etc.; R3 = H and groups cited for R1; R4 = halo, alkyl, CH2OH, CHO; R5 = (hydroxy)alkyl, alkenyl, alkynyl, etc.; R6 = (un)substituted Ph, heteroaryl, etc.] were prepared as corticotropin releasing factor receptor antagonists (no data). Thus, 2,5-MeClC6H3NHCSNH2 was cyclocondensed with 2,4-Cl(MeO)C6H3COCHMeBr (preparation each given) to give I (R1 = C1, R2 = OMe, R3 = H, R4 = Me, R6 = C6H3MeCl-2,5) (II; R5 = H) which was N-alkylated by PrI to give II (R5 = Pr).

IT 95-79-4, 5-Chloro-2-methylaniline 108-70-3, 1,3,5-Trichlorobenzene 554-00-7, 2,4-Dichloroaniline (preparation of 4-phenyl-2-thiazoleamines as corticotropin releasing factor antagonists) RN

95-79-4 HCAPLUS

CN Benzenamine, 5-chloro-2-methyl- (9CI) (CA INDEX NAME)

RN 554-00-7 HCAPLUS

CN Benzenamine, 2,4-dichloro- (9CI) (CA INDEX NAME)

IC ICM C07D277-42

ICS C07D417-12; A61K031-425

CC 28-7 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1, 2

IT 79-03-8, Propionyl chloride 79-09-4, Propanoic acid, reactions

95-79-4, 5-Chloro-2-methylaniline 98-88-4, Benzoyl

chloride 106-94-5, 1-Bromopropane 106-96-7, Propargyl bromide

108-70-3, 1,3,5-Trichlorobenzene 110-91-8, Morpholine,

reactions **554-00-7**, 2,4-Dichloroaniline 1068-55-9,

Isopropylmagnesium chloride 1730-48-9, 7-Methoxy-1,2,3,4-

tetrahydronaphthalene 1813-33-8, 2-Chloro-4-

trifluoromethylbenzonitrile 3002-94-6, Cyclopropyl lithium

7693-52-9, 4-Bromo-2-nitrophenol 16419-60-6,

2-Methylphenylboronic acid 24812-90-6, Methyl

3-amino-4-methoxybenzoate 50868-73-0, 2-Methoxy-6-methylaniline

103175-61-7, 2-Bromo-1-(2,4-dichlorophenyl)-1-propanone

188120-55-0 205758-37-8 205758-38-9 205758-39-0

(preparation of 4-phenyl-2-thiazoleamines as corticotropin releasing

factor antagonists)

REFERENCE COUNT:

THERE ARE 6 CITED REFERENCES AVAILABLE

FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L64 ANSWER 15 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

6

ACCESSION NUMBER: 1997:740214 HCAPLUS Full-text

DOCUMENT NUMBER: 128:13263

TITLE: Preparation of 1-alkyl-4-benzoyl-3-cyclopropyl-

5-hydroxypyrazoles and derivatives as

herbicides.

INVENTOR(S): Murai, Shigeo; Kikugawa, Hiroshi; Nakayama,

Hitoshi; Sano, Makiko; Isogai, Akihiko

PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha Ltd., Japan

SOURCE: PCT Int. Appl., 148 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

GI

PAT	ENT NO.		KIND DATE		APPLICATION NO.	DATE	
 WO	9741106		Al 19971106		WO 1997-JP1457	1997	
	RW: AT,	BE, CH,			< PL, RO, RU, SI, SK, US, FR, GB, GR, IE, IT, LU,		
JP	NL, 10109976	PT, SE	A2	19980428	JP 1997-110389	1997 0411	
ZA	9703559		A	19971119	< ZA 1997-3559	1997 0424	
CA	2252451		AA	19971106	< CA 1997-2252451	1997 0425	
EP	900205		A1	19990310	< EP 1997-919701	1997 0425	
CN		PT, IE,	FI		< GB, GR, IT, LI, LU, NL, CN 1997-194093	SE,	
					<	1997 0425	
ВК	9701948		A	19990112	BR 1997-1948	1997 0428	
US	5998334		A	19991207	us 1998-147191	1998 1026	
PRIORITY	APPLN.	INFO.:			< JP 1996-130879	A 1996 0426	
					< JP 1996-227767	A 1996 0809	
				·	< WO 1997-JP1457	7 1997 0425	
OTHER SC	OURCE(S):		MARPAT	128:13263	< 3		

$$x_n$$
 x_n
 x_n
 x_n

AB Title compds. [I; R1 = alkyl; R2 = H, Me, AR3, (substituted) Ph, pyridyl, phenylallyl; A = SO2, CO, CHR6, CHR7CO; R3 = (substituted), alkyl, alkenyl, alkynyl, alkoxy, Ph, cyano, dialkylamino; R6, R7 = H, alkyl; X = H, halo, alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, NO2, alkoxycarbonyl, SO2NR8R9, NR10SO2R11, CH2SOR12 OSO2mR13; R8-R13 = alkyl; Z = alkyl; q = 0-5; n = 1-5; q = 0-2; provided that when $q \ge 2$, a plurality of Z may be the same or different, and when $n \ge 2$, a plurality of X may be the same or different], were prepared Thus, MeNHNH2 was refluxed with tert-Bu 3cyclopropyl-3-oxopropionate in THF to give 3-cyclopropyl-5- hydroxy-1methylpyrazole. This was stirred with aqueous Na2CO3 and 4-trifluoromethyl-2methylthiobenzoyl chloride (prepared in situ) in PhMe to give 3-cyclopropyl-1methyl-5-pyrazolyl-4-trifluoromethyl- 2-methylthiobenzoate. This was converted to 3-cyclopropyl-4-(4- trifluoromethyl-2-methylsulfonylbenzoyl)-5hydroxy-1- methylpyrazole. The latter at 125 g/ha postemergent gave 100% control of Xanthium strumarium.

IT **118-69-4**, 2,6-Dichlorotoluene

(preparation of 1-alkyl-4-benzoyl-3-cyclopropyl-5-hydroxypyrazoles and derivs. as herbicides)

RN 118-69-4 HCAPLUS

CN Benzene, 1,3-dichloro-2-methyl- (9CI) (CA INDEX NAME)

IT 105202-02-6P

(preparation of 1-alkyl-4-benzoyl-3-cyclopropyl-5-hydroxypyrazoles and derivs. as herbicides)

RN 105202-02-6 HCAPLUS

CN Benzenamine, 2-iodo-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)

IC ICM C07D231-20

ICS C07D401-12; A01N043-56

CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5 60-34-4, Methylhydrazine 78-88-6, 2,3-Dichloropropene IT 89-75-8, 2,4-Dichlorobenzoyl chloride 118-69-4, 2,6-Dichlorotoluene 302-01-2, Hydrazine, reactions 400-97-5 134302-07-1, tert-Butyl 3-cyclopropyl-3-oxopropionate 142994-05-6 (preparation of 1-alkyl-4-benzoyl-3-cyclopropyl-5-hydroxypyrazoles and derivs. as herbicides) ΙT **105202-02-6P** 199125-21-8P 199125-22-9P 199125-23-0P 199125-24-1P 199125-25-2P 199125-26-3P 199125-27-4P 199125-28-5P 199125-29-6P 199125-30-9P 199125-31-0P 199125-32-1P 199125-33-2P 199125-34-3P 199125-35-4P 199125-36-5P (preparation of 1-alkyl-4-benzoyl-3-cyclopropyl-5-hydroxypyrazoles and derivs. as herbicides) L64 ANSWER 16 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN 1997:697238 HCAPLUS Full-text ACCESSION NUMBER: DOCUMENT NUMBER: 128:3490 TITLE: Fluorinated biphenyls from aromatic arylation with pentafluorobenzenediazonium and related cations. Competition between arylation and azo coupling AUTHOR(S): Kosynkin, Dmitry; Bockman, T. Michael; Kochi, Jav K. CORPORATE SOURCE: Dep. Chemistry, Univ. Houston, Houston, TX, 77204-5641, USA Journal of the Chemical Society, Perkin SOURCE: Transactions 2: Physical Organic Chemistry (**1997**), (10), 2003-2012 CODEN: JCPKBH; ISSN: 0300-9580 PUBLISHER: Royal Society of Chemistry DOCUMENT TYPE: Journal LANGUAGE: English OTHER SOURCE(S): CASREACT 128:3490 High yields of the mixed perfluorinated biaryls (C6F5-Ar) are obtained by the catalytic dediazoniation of the pentafluorobenzenediazonium salt (C6F5N2+ BF4-) in acetonitrile solns. containing various aromatic substrates (ArH) together with small amts. of iodide salts. Activated (electron-rich) as well as deactivated (electron-poor) arenes are successfully pentafluorophenylated by this method. The arylation is distinct from the azo coupling of the same substrates, which takes place in the absence of the iodide catalyst and yields the corresponding diazene (C6F5N=N-Ar) as product. The catalytic role of iodide, and the isomeric product distributions obtained with this procedure indicate that the arylation proceeds via the pentafluorophenyl radical in an efficient homolytic chain process. Since azo coupling involves electrophilic aromatic substitution of electron-rich ArH by C6H5N2+, the two competing pathways are distinct and do not have reactive intermediates in common. IT 108-70-3, 1,3,5-Trichlorobenzene 771-60-8, Pentafluoroaniline (preparation, arylation and azo coupling of pentafluorobenzenediazonium and related cations) 108-70-3 HCAPLUS RN CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

RN 771-60-8 HCAPLUS
CN Benzenamine, 2,3,4,5,6-pentafluoro- (9CI)

Benzenamine, 2,3,4,5,6-pentafluoro- (9CI) (CA INDEX NAME)

CC

TT 71-43-2, Benzene, reactions 91-16-7 91-20-3, Naphthalene, reactions 94-09-7, Ethyl 4-aminobenzoate 95-47-6, o-Xylene, reactions 98-06-6, tert-Butylbenzene 98-82-8, Isopropylbenzene 98-95-3, Nitrobenzene, reactions 99-09-2, 3-Nitroaniline

100-01-6, 4-Nitroaniline, reactions 100-66-3, Anisole, reactions 100-84-5, 3-Methylanisole 106-42-3, p-Xylene, reactions

25-3 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

106-46-7, p-Dichlorobenzene 108-38-3, reactions 108-67-8,

Mesitylene, reactions 108-70-3, 1,3,5-Trichlorobenzene 108-88-3, reactions 108-90-7, Chlorobenzene, reactions

108-88-3, reactions 108-90-7, Chlorobenzene, reactions 150-78-7, p-Dimethoxybenzene 151-10-0 328-74-5,

3,5-Bis(trifluoromethyl)aniline 618-87-1, 3,5-Dinitroaniline

700-12-9, 1,2,3,4,5-Pentamethylbenzene **771-60-8**,

Pentafluoroaniline 42122-73-6, Diethyl 5-aminoisophthalate

190671-96-6

(preparation, arylation and azo coupling of pentafluorobenzenediazonium and related cations)

REFERENCE COUNT:

THERE ARE 74 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L64 ANSWER 17 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1997:314628 HCAPLUS Full-text

74

DOCUMENT NUMBER:

127:50482

TITLE:

Epoxidation of alkenes under liquid-liquid biphasic conditions: synthesis and catalytic

activity of Mn(III)-tetraarylporphyrins

bearing perfluoroalkyl tails

AUTHOR(S):

Pozzi, Gianluca; Colombani, Ida; Miglioli, Massimo; Montanari, Fernando; Quici, Silvio

CORPORATE SOURCE:

Centro CNR and Dipartimento di Chimica Organica e Industriale dell'Universita, Milan,

I-20133, Italy

SOURCE:

Tetrahedron (1997), 53(17),

6145-6162

CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER:
DOCUMENT TYPE:

Elsevier Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 127:50482

Four tetraarylporphyrins bearing one n-C8F17 chain on each meso-aryl group have been synthesized. The Mn(III)-complexes of these new compds. were used as catalysts in alkene epoxidns. carried out under aqueous-organic biphasic conditions. High epoxide yields were obtained with catalysts in which, along with perfluoroalkyl chains, bulky substituents were present at appropriate positions. The expected general enhancement of stability and catalytic activity due to the electron-withdrawing effect of n-C8F17 substituents was not observed However, one of the Mn(III)-complexes was found to be an exceptionally active catalyst for NaOCl promoted epoxidn. of poorly reactive linear α -alkenes.

ΙT 118-69-4, 2,6-Dichlorotoluene

(epoxidn. of alkenes under liquid-liquid biphasic conditions)

RN 118-69-4 HCAPLUS

CN Benzene, 1,3-dichloro-2-methyl- (9CI) (CA INDEX NAME)

IT 19853-79-3P

(epoxidn. of alkenes under liquid-liquid biphasic conditions)

RN 19853-79-3 HCAPLUS

CN Benzenamine, 2,4-dichloro-3-methyl- (9CI) (CA INDEX NAME)

CC 27-2 (Heterocyclic Compounds (One Hetero Atom))

ΙT 109-97-7, Pyrrole 112-41-4, 1-Dodecene 118-69-4,

2,6-Dichlorotoluene 498-66-8, Bicyclo[2.2.1]hept-2-ene

507-63-1, Perfluorooctyl iodide 591-49-1, 1-Methylcyclohexene 618-91-7, Methyl m-iodobenzoate 619-44-3, Methyl p-iodobenzoate

629-73-2, 1-Hexadecene 872-05-9, 1-Decene 931-88-4 Cyclooctene 1073-67-2, 4-Chlorostyrene 18516-37-5, 931-88-4,

2-Methyl-1-undecene 177167-51-0

(epoxidn. of alkenes under liquid-liquid biphasic conditions)

IT 19853-79-3P 29682-46-0P 80791-11-3P 80791-12-4P

134641-34-2P 134641-35-3P 163114-33-8P 190722-63-5P

190722-64-6P 190722-65-7P 190722-66-8P 190722-69-1P

190722-70-4P 190722-75-9P 190722-77-1P 190722-78-2P

190722-79-3P 190722-80-6P 190722-81-7P 190722-82-8P

190722-83-9P

(epoxidn. of alkenes under liquid-liquid biphasic conditions)

REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE

FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L64 ANSWER 18 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1996:309983 HCAPLUS Full-text

DOCUMENT NUMBER: 125:85903

TITLE: (2,6-Dichlorophenyl)bis(2,4,6-

trichlorophenyl) methyl radical. Synthesis, Magnetic Behavior and Crystal Structure Carilla, Jose; Fajari, Lluis; Julia, Luis;

Sane, Joan; Rius, Jordi

CORPORATE SOURCE: Dep. Mater. Org. Halogenats, CSIC, Barcelona,

08034, Spain

SOURCE: Tetrahedron (1996), 52(20),

7013-7024

CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

AB (2,6-Dichlorophenyl)bis(2,4,6-trichlorophenyl)methyl radical (I) was prepared through a reaction sequence of five stages via four new intermediate compds. . Assignment of the structures of these compds. was confirmed by 1H NMR spectra. The new persistent radical I was characterized by EPR spectra and magnetic susceptibility measurements. The x-ray structural anal. of I shows that it adopts a propeller-like conformation with the Ph rings twisted around their bonds to trivalent carbon. Magnetic susceptibility of I is characteristic of a paramagnet with a weak antiferromagnetic interaction at low temps. (Weiss constant, $\theta = -1.8 \text{ K}$).

IT 178421-50-6P

AUTHOR(S):

(intermediate in preparation of (dichlorophenyl)bis(trichlorophenyl)
methyl radical)

RN 178421-50-6 HCAPLUS

CN Benzenamine, 3-[bis(2,4,6-trichlorophenyl)methyl]-2,4-dichloro-(9CI) (CA INDEX NAME)

IT 108-70-3, 1,3,5-Trichlorobenzene

(reactant in preparation of (dichlorophenyl)bis(trichlorophenyl)meth
yl radical)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

CC 22-3 (Physical Organic Chemistry)

Section cross-reference(s): 75

IT 178421-48-2P 178421-49-3P **178421-50-6P** 178421-51-7P

(intermediate in preparation of (dichlorophenyl)bis(trichlorophenyl)
methyl radical)

IT 81-19-6, α , α , 2, 6-Tetrachlorotoluene 108-70-3

, 1,3,5-Trichlorobenzene

(reactant in preparation of (dichlorophenyl)bis(trichlorophenyl)meth
yl radical)

L64 ANSWER 19 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1995:900537 HCAPLUS Full-text

DOCUMENT NUMBER:

124:117461

TITLE:

Syntheses, structures and properties of phenanthro[1,10-cd:8,9-c'd']bis[1,2]-dithiole

and -diselenole and their methyl and methylthio derivatives as novel electron

donors

AUTHOR(S):

Takimiya, Kazuo; Shibata, Youji; Ohnishi, Akiko; Aso, Yoshio; Otsubo, Tetsuo; Ogura,

Fumio

CORPORATE SOURCE:

Dep. Applied Chem., Hiroshima Univ.,

Higashi-Hiroshima, 739, Japan

SOURCE:

Journal of Materials Chemistry (1995

), 5(10), 1539-47

CODEN: JMACEP; ISSN: 0959-9428

PUBLISHER:

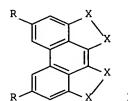
Royal Society of Chemistry

DOCUMENT TYPE:

LANGUAGE:

GI

Journal English



AB Tetrathio- and tetraseleno-phenanthrenes, as well as their di-Me and bis(methylthio) derivs. I (X = S, Se; R = H, Me, MeS) were synthesized as the 1st examples of novel electron donors of the peri-dichalcogen-bridged polyphene type. X-ray analyses revealed that these compds. have planar heterocyclic structures similar to that of perylene, in the crystal, the mols. are stacked in columns with strong interactions between the heteroatoms in adjacent columns, which produces a two- or three-dimensional interactive

network of the mol. components. Cyclic voltammetry studies indicated that these compds. have somewhat weaker electron-donating abilities than do their anthracene counterparts bearing structural resemblances. Although only tetraselenophenanthrene gave a conductive charge-transfer complex with 7,7,8,8-tetracyanoquinodimethane (TCNQ), they all formed complexes with stronger electron acceptors, 2,3,5,6-tetrafluoro- TCNQ (TCNQF4) and 2,3-dichloro-5,6-dicyano-1,4-benzoquinone (DDQ), giving rare examples of conductive materials containing TCNQF4 and DDQ. They formed a variety of radical cation salts, which are also highly conductive.

IT 87-60-5 118-69-4, 2,6-Dichlorotoluene

(syntheses and properties of phenanthrobisdithioles and -diselenoles as novel electron donors)

RN 87-60-5 HCAPLUS

CN Benzenamine, 3-chloro-2-methyl- (9CI) (CA INDEX NAME)

RN 118-69-4 HCAPLUS

CN Benzene, 1,3-dichloro-2-methyl- (9CI) (CA INDEX NAME)

CC 29-8 (Organometallic and Organometalloidal Compounds)

Section cross-reference(s): 72, 75, 76

IT 87-60-5 89-98-5 118-69-4, 2,6-Dichlorotoluene

(syntheses and properties of phenanthrobisdithioles and -diselenoles as novel electron donors)

L64 ANSWER 20 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:725628 HCAPLUS Full-text

DOCUMENT NUMBER: 123:198203

TITLE: Physical, spectral and chromatographic

properties of all 209 individual PCB congeners

AUTHOR(S): Bolgar, Michael; Cunningham, James; Cooper,

Russell; Kozloski, Richard; Hubball, Jack

AccuStandard Inc., New Haven, CT, 06511, USA

SOURCE: Chemosphere (1995), 31(2), 2687-705

CODEN: CMSHAF; ISSN: 0045-6535

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal LANGUAGE: English

CORPORATE SOURCE:

AB Phys., spectral and chromatog. data for all 209 individual PCB congeners is presented. The individual congeners were synthesized and then isolated and purified. Through the use of two capillary GC columns: 40% octadecyl/15% Ph

Me siloxane and 50% Ph Me siloxane, it was possible to sep. 201 PCB congeners with only 4 unresolved pairs.

IT 108-70-3, 1,3,5-Trichlorobenzene 626-43-7,

3,5-Dichloroaniline

(preparation and phys., spectral, and chromatog. properties of all PCB congeners)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

RN 626-43-7 HCAPLUS

CN Benzenamine, 3,5-dichloro- (9CI) (CA INDEX NAME)

CC 22-13 (Physical Organic Chemistry)

IT 71-43-2, Benzene, reactions 87-61-6, 1,2,3-Trichlorobenzene 95-50-1, 1,2-Dichlorobenzene 95-51-2, 2-Chloroaniline 95-76-1, 3,4-Dichloroaniline 95-82-9, 2,5-Dichloroaniline 1,2,4,5-Tetrachlorobenzene 106-46-7, 1,4-Dichlorobenzene 106-47-8, 4-Chloroaniline, reactions 108-42-9, 3-Chloroaniline **108-70-3**, 1,3,5-Trichlorobenzene 108-90-7, Chlorobenzene, reactions 120-82-1, 1,2,4-Trichlorobenzene 554-00-7, 2,4-Dichloroaniline 541-73-1, 1,3-Dichlorobenzene 608-27-5, 2,3-Dichloroaniline 608-31-1, 2,6-Dichloroaniline 608-93-5, Pentachlorobenzene 626-43-7, 3,5-Dichloroaniline 634-66-2, 1,2,3,4-Tetrachlorobenzene 634-67-3, 2,3,4-Trichloroaniline 634-83-3, 2,3,4,5-Tetrachloroaniline 634-90-2, 1,2,3,5-Tetrachlorobenzene 634-91-3, 3,4,5-Trichloroaniline 634-93-5, 2,4,6-Trichloroaniline 636-30-6, 2,4,5-Trichloroaniline 654-36-4, 2,3,4,6-Tetrachloroaniline 3481-20-7, 2,3,5,6-Tetrachloroaniline 18487-39-3, 2,3,5-Trichloroaniline 88963-39-7, 2,3,6-Trichloroaniline (preparation and phys., spectral, and chromatog, properties of all

L64 ANSWER 21 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1993:603121 HCAPLUS Full-text

DOCUMENT NUMBER: 119:203121

PCB congeners)

TITLE: Preparation of 3,5-dichloroaniline from

trichlorobenzene

INVENTOR(S): Fujino, Toshihiro; Sato, Haruyo

PATENT ASSIGNEE(S): Toray Industries, Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05194330	A2	19930803	JP 1992-8738	
				1992
				0121
			<- -	
PRIORITY APPLN. INFO.:			JP 1992-8738	
				1992
				0121

OTHER SOURCE(S):

CASREACT 119:203121

AB 3,5-Dichloroaniline (I) is prepared by treating 1,3,5- trichlorobenzene (II) with NH3 in presence of Cu catalysts and N-methyl-&-caprolactam (III) or 2-pyrrolidone. A mixture of II, III, CuCl, and liquid NH3 was heated at 200° for 6 h to give I with 59.6% conversion and 85.1% selectivity.

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IT **108-70-3**, 1,3,5-Trichlorobenzene

(amination of, by ammonia, solvents for)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

IT 626-43-7P, 3,5-Dichloroaniline

(preparation of, from trichlorobenzene)

RN 626-43-7 HCAPLUS

CN Benzenamine, 3,5-dichloro- (9CI) (CA INDEX NAME)

IC ICM C07C211-52

ICS B01J031-28; C07C209-10

ICA C07B061-00

CC 25-4 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

IT 108-70-3, 1,3,5-Trichlorobenzene

(amination of, by ammonia, solvents for)

IT 626-43-7P, 3,5-Dichloroaniline

(preparation of, from trichlorobenzene)

L64 ANSWER 22 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1993:436232 HCAPLUS Full-text

DOCUMENT NUMBER: 119:36232

TITLE: Heterogeneous catalysts for use in anodic

electrosyntheses and electrodestruction of organic compounds in aqueous surfactant

systems

AUTHOR(S): Franklin, Thomas C.; Darlington, Jerald;

Nnodimele, Remi; Duty, Robert C.

CORPORATE SOURCE: Dep. Chem., Baylor Univ., Waco, TX, 76798, USA

SOURCE: Electrochem. Colloids Dispersions, [Symp.

Electrochem. Microheterog. Fluids] (
1992), 319-29. Editor(s): Mackay,

Raymond A.; Texter, John. VCH: New York, N.Y.

CODEN: 58XTAL

DOCUMENT TYPE: Conference LANGUAGE: English

AB Results of studies on the development of solid insol. catalysts for use in electrooxidns. of organic compds. in aqueous cationic surfactant suspensions are presented. Coulometric studies indicate that 1 can electrooxidize lower-valent oxides to produce Cu(III) oxide, Mn(III) and Mn(IV) oxides, and Ba superoxide. These higher oxides are able to oxidize several compds. The primary reaction produced no observed product other than carbonate and the soluble halide ion. However, di-Et sulfide was oxidized by Cu(III) oxide to produce the sulfoxide. Substituted bromobenzenes with the Br oriented into the aqueous phase of the suspension were readily destroyed, while those that had the Br oriented into the micelle were readily attacked. Also a Ba peroxide catalyzed system can be used as a fuel cell, generating small amts. of electricity while destroying the compound

108-70-3, 1,3,5-Trichlorobenzene

(destruction of, in battery, barium peroxide in relation to)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

$$C1$$
 $C1$

IT

IT 106-40-1, p-Bromoaniline

(electrochem. oxidation and destruction of, on platinum in sodium nitrate solution containing tetrabutylammonium hydroxide and barium peroxide)

RN 106-40-1 HCAPLUS

CN Benzenamine, 4-bromo- (9CI) (CA INDEX NAME)

CC 72-2 (Electrochemistry)

Section cross-reference(s): 22, 52

IT **108-70-3**, 1,3,5-Trichlorobenzene

(destruction of, in battery, barium peroxide in relation to)

IT 88-65-3, o-Bromobenzoic acid 106-38-7, p-Bromotoluene

106-40-1, p-Bromoaniline 586-76-5, p-Bromobenzoic acid

(electrochem. oxidation and destruction of, on platinum in sodium nitrate solution containing tetrabutylammonium hydroxide and barium peroxide)

L64 ANSWER 23 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1992:577869 HCAPLUS Full-text

DOCUMENT NUMBER: 117:177869

TITLE: Gibbs free energy of formation of halogenated

aromatic compounds and their potential role as

electron acceptors in anaerobic environments

AUTHOR(S): Dolfing, Jan; Harrison, B. Keith

CORPORATE SOURCE: Dep. Biochem., Univ. Groningen, Groningen,

9747 AG, Neth.

SOURCE: Environmental Science and Technology (

1992), 26(11), 2213-18

CODEN: ESTHAG; ISSN: 0013-936X

DOCUMENT TYPE: Journal LANGUAGE: English

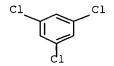
AB The Gibbs free energies of formation of various classes of halogenated aromatic compds. were estimated by Benson's method. The data were used to evaluate the potential of these compds. to serve as electron acceptors in anaerobic environments. The results indicate that for (chloro) benzenes, benzoates, and phenols, the redox potentials of the couples Ar-X/Ar-H are 266-478 mV. This implies that microorganisms can potentially conserve energy for growth by routing electrons in the form of H2 from anaerobic environments to halogenated aromatic compds. as electron acceptors. This theor. prediction was corroborated for 3-chlorobenzoate. The existence of enrichment cultures, obtained from anaerobic sediments and sewage sludges, that dechlorinate other halogenated aromatic compds. suggests the existence of more microorganisms that can benefit from the use of halogenated aromatic compds. as electron acceptors.

IT 108-70-3P, 1,3,5-Trichlorobenzene 635-21-2P

(formation of, Gibbs free energy of, biodegrdn. and water pollution in relation to)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)



RN 635-21-2 HCAPLUS

CN Benzoic acid, 2-amino-5-chloro- (9CI) (CA INDEX NAME)

```
CC
    61-2 (Water)
    Section cross-reference(s): 10, 60, 69
IT
    50-45-3P
              50-73-7P
                          50-79-3P
                                    50-84-0P
                                                51-36-5P
    58-90-2P, 2,3,4,6-Tetrachlorophenol
                                          65-85-0P, Benzoic acid,
    preparation 71-43-2DP, Benzene, chloro derivs.
                                                       87-61-6P,
    1,2,3-Trichlorobenzene 87-65-0P, 2,6-Dichlorophenol
                                                            87-86-5P,
    Pentachlorophenol 88-06-2P, 2,4,6-Trichlorophenol
                                                          95-50-1P,
    1,2-Dichlorobenzene 95-57-8P, 2-Chlorophenol
                                                     95-77-2P,
    3,4-Dichlorophenol 95-94-3P, 1,2,4,5-Tetrachlorobenzene
    95-95-4P, 2,4,5-Trichlorophenol 106-46-7P, 1,4-Dichlorobenzene
    106-48-9P, 4-Chlorophenol 108-43-0P, 3-Chlorophenol
    108-70-3P, 1,3,5-Trichlorobenzene 108-90-7P,
    Monochlorobenzene, preparation 108-95-2DP, Phenol, chloro
    derivs.
              118-74-1P, Hexachlorobenzene 118-91-2P
                                                         120-82-1P,
    1,2,4-Trichlorobenzene
                             120-83-2P, 2,4-Dichlorophenol
                                                             321-14-2P
    541-73-1P, 1,3-Dichlorobenzene 576-24-9P, 2,3-Dichlorophenol
    583-78-8P, 2,5-Dichlorophenol 591-35-5P, 3,5-Dichlorophenol
    608-93-5P, Pentachlorobenzene 609-19-8P, 3,4,5-Trichlorophenol
    618-51-9P
                634-66-2P, 1,2,3,4-Tetrachlorobenzene
                                                        634-90-2P,
    1,2,3,5-Tetrachlorobenzene 635-21-2P
                                           933-75-5P,
    2,3,6-Trichlorophenol 933-78-8P, 2,3,5-Trichlorophenol
    935-95-5P, 2,3,5,6-Tetrachlorophenol
                                           2365-27-7P,
    4-Fluorobenzoate
                       2365-28-8P, 3-Fluorobenzoate
    4-Chlorobenzoate
                       4901-51-3P, 2,3,4,5-Tetrachlorophenol
    5377-71-9P, 4-Iodobenzoate
                                 7499-06-1P
                                             15950-66-0P,
    2,3,4-Trichlorophenol
                            16426-56-5P, 2-Fluorobenzoate
    16449-27-7P, 4-Bromobenzoate
                                   16887-60-8P, 3-Chlorobenzoate
    16887-61-9P, 3-Bromobenzoate
                                   16887-76-6P, 2-Bromobenzoate
    16887-77-7P, 2-Iodobenzoate
                                45939-19-3P
                                                95467-67-7P.
    2,6-Dichlorobenzoate
        (formation of, Gibbs free energy of, biodegrdn. and water
       pollution in relation to)
```

L64 ANSWER 24 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1992:469498 HCAPLUS Full-text

DOCUMENT NUMBER: 117:69498

TITLE: One step conversion of anilines to aryl

halides using sodium nitrite and

halotrimethylsilane

AUTHOR(S): Lee, Jong Gun; Cha, Hee Tae

CORPORATE SOURCE: Dep. Chem., Pusan Natl. Univ., Pusan, 609-735,

S. Korea

SOURCE: Tetrahedron Letters (1992), 33(22),

3167-8

CODEN: TELEAY; ISSN: 0040-4039.

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 117:69498

AB Anilines were easily diazotized and efficiently converted to aryl halides in a one-pot reaction using sodium nitrite and halotrimethylsilane in carbon tetrachloride. Halotrimethylsilanes are used for both generating the

nitrosonium donor from sodium nitrite, and halogen substitution of the diazonium group.

626-43-7, 3,5-Dichloroaniline ΙT

> (one step conversion of, to aryl halide by sodium nitrite-halotrimethylsilane)

626-43-7 HCAPLUS RN

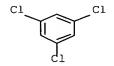
CN Benzenamine, 3,5-dichloro- (9CI) (CA INDEX NAME)

IT **108-70-3P**, 1,3,5-Trichlorobenzene

> (preparation of, by reaction of aniline derivative with sodium nitrite-halotrimethylsilane)

RN 108-70-3 HCAPLUS

Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME) CN



CC 25-3 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

IT 95-51-2, o-Chloroaniline 95-53-4, o-Toluidine, reactions 97-02-9, 2,4-Dinitroaniline 108-69-0, 3,5-Dimethylaniline 134-32-7, 1-Aminonaphthalene 536-90-3, m-Anisidine 540-37-4, p-Iodoaniline 615-36-1, o-Bromoaniline **626-43-7**, 3,5-Dichloroaniline 873-74-5, p-Aminobenzonitrile

(one step conversion of, to aryl halide by sodium nitrite-halotrimethylsilane)

97-00-7P, 2,4-Dinitrochlorobenzene IT 95-49-8P, o-Chlorotoluene **108-70-3P**, 1,3,5-Trichlorobenzene 556-96-7P,

615-41-8P, o-Chloroiodobenzene 3,5-Dimethylbromobenzene 623-03-0P, p-Chlorobenzonitrile 624-38-4P

o-Bromochlorobenzene 766-85-8P, m-Iodoanisole

(preparation of, by reaction of aniline derivative with sodium nitrite-halotrimethylsilane)

L64 ANSWER 25 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1991:655780 HCAPLUS Full-text

DOCUMENT NUMBER: 115:255780

TITLE: Process for the preparation of

2,6-difluoroaniline and intermediates

Pews, R. Garth; Gall, James A. INVENTOR(S):

PATENT ASSIGNEE(S): DowElanco, USA SOURCE: U.S., 6 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.		KIND	DATE	APPLICATION NO.	DATE
US 5041674		Α	19910820	US 1990-537975	
					1990
					0614
				<	
PRIORITY APPLN.	<pre>INFO.:</pre>			US 1990-537975	
					1990
					0614

<--

OTHER SOURCE(S): CASREACT 115:255780

AB A process for the preparation of 2,6-F2C6H3NH2 (I) comprises chlorination of 3,5-F2C6H3Cl (II) to give 4,6-difluoro-1,2,3- trichlorobenzene which is nitrated and reduced to give I. Thus, chlorination of II with chlorine gas in the presence of SbCl3 as catalyst in CH2Cl2 followed by nitration with 90% HNO3 gave a mixture of 3% 4,6-difluoro-1,2,3,5-tetrachlorobenzene, 18% 2,4-difluoro-3,5,6-trichloronitrobenzene, and 76% 2,6-difluoro-3,4,5-trichloronitrobenzene. Hydrogenation of this mixture in a Hastelloy C pressure reactor in the presence of Pd/charcoal/hydrogen in MeOH gave 89% I and 11% 2,4-F2C6H3NH2.

IT **108-70-3**, 1,3,5-Trichlorobenzene

(fluorination of, with potassium fluoride)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

IT 1435-43-4P, 1-Chloro-3,5-difluorobenzene

(preparation and chlorination of)

RN 1435-43-4 HCAPLUS

CN Benzene, 1-chloro-3,5-difluoro- (7CI, 8CI, 9CI) (CA INDEX NAME)

IT 367-25-9P, 2,4-Difluoroaniline 5509-65-9P,
2,6-Difluoroaniline 136272-34-9P, 2,6-Difluoro-3,4,5trichloroaniline

(preparation of)

RN 367-25-9 HCAPLUS

CN Benzenamine, 2,4-difluoro- (9CI) (CA INDEX NAME)

RN 5509-65-9 HCAPLUS

CN Benzenamine, 2,6-difluoro- (9CI) (CA INDEX NAME)

RN 136272-34-9 HCAPLUS

CN Benzenamine, 3,4,5-trichloro-2,6-difluoro- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} C1 & F \\ \hline C1 & F \\ \hline C1 & NH_2 \end{array}$$

IC ICM C07C211-46

ICS C07C209-22

INCL 564442000

CC 25-4 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

IT 108-70-3, 1,3,5-Trichlorobenzene

(fluorination of, with potassium fluoride)

IT 1435-43-4P, 1-Chloro-3,5-difluorobenzene

(preparation and chlorination of)

IT **367-25-9P**, 2,4-Difluoroaniline 372-38-3P,

1,3,5-Trifluorobenzene 1198-56-7P, 4,6-Difluoro-1,2,3,5-tetrachlorobenzene 1435-46-7P, 1,3-Dichloro-5-fluorobenzene

5509-65-9P, 2,6-Difluoroaniline 136272-34-9P,

2,6-Difluoro-3,4,5-trichloroaniline

(preparation of)

L64 ANSWER 26 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1991:558603 HCAPLUS Full-text

DOCUMENT NUMBER: 115:158603

TITLE: Aromatic fluorine chemistry. Part 4.

Preparation of 2,6-difluoroaniline

AUTHOR(S): Pews, R. G.; Gall, J. A.

CORPORATE SOURCE: Cent. Res. Lab., Dow Chem. Co., Midland, MI,

48674, USA

SOURCE: Journal of Fluorine Chemistry (1991

), 52(3), 307-16

CODEN: JFLCAR; ISSN: 0022-1139

DOCUMENT TYPE: Journal LANGUAGE: English

AB The preparation of 2,6-difluoroaniline from 1,3,5-trichlorobenzene is described. 1-Chloro-3,5-difluorobenzene prepared via F exchange on 1,3,5-trichlorobenzene is dichlorinated and nitrated in a single reactor to a mixture of trichlorodifluoronitrobenzenes. The latter are reduced by catalytic hydrogenation to give a .apprx.4:1 mixture of 2,6- and 2,4-difluoroaniline.

IT 108-70-3, 1,3,5-Trichlorobenzene

(fluorination of, by halogen exchange with potassium fluoride)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

IT 1435-43-4P, 1-Chloro-3,5-difluorobenzene

(preparation and nitration of)

RN 1435-43-4 HCAPLUS

CN Benzene, 1-chloro-3,5-difluoro- (7CI, 8CI, 9CI) (CA INDEX NAME)

IT 136272-34-9P

(preparation of)

RN 136272-34-9 HCAPLUS

CN Benzenamine, 3,4,5-trichloro-2,6-difluoro- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} C1 & F \\ \hline C1 & F \\ \hline C1 & F \\ \end{array}$$

IT 367-25-9P, 2,4-Difluoroaniline 5509-65-9P,

2,6-Difluoroaniline

(preparation of, from trichlorobenzene)

RN 367-25-9 HCAPLUS

CN Benzenamine, 2,4-difluoro- (9CI) (CA INDEX NAME)

RN 5509-65-9 HCAPLUS

CN Benzenamine, 2,6-difluoro- (9CI) (CA INDEX NAME)

CC 25-4 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

IT 108-70-3, 1,3,5-Trichlorobenzene

(fluorination of, by halogen exchange with potassium fluoride)

IT 1198-56-7P 1435-43-4P, 1-Chloro-3,5-difluorobenzene

13656-67-2P 43061-38-7P 136313-38-7P

(preparation and nitration of)

IT 136272-34-9P

(preparation of)

IT 367-25-9P, 2,4-Difluoroaniline 5509-65-9P,

2,6-Difluoroaniline

(preparation of, from trichlorobenzene)

L64 ANSWER 27 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1991:536007 HCAPLUS Full-text

DOCUMENT NUMBER: 115:136007

TITLE: Benzylated 1,2,3-triazoles as

anticoccidiostats

AUTHOR(S): Bochis, Richard J.; Chabala, John C.; Harris,

Ellwood; Peterson, Louis H.; Barash, Louis; Beattie, Thomas; Brown, Jeannette E.; Graham,

Donald W.; Waksmunski, Frank S.; et al.

CORPORATE SOURCE: Mercke Sharp and Dohme Res. Lab., Rahway, NJ,

07065-0900, USA

SOURCE: Journal of Medicinal Chemistry (1991

), 34(9), 2843-52

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

GI

$$R^{2}$$
 R^{1} R^{4} R^{2} R^{2} R^{1} R^{2} R^{2} R^{2} R^{2} R^{2} R^{2} R^{2} R^{2} R^{2} R^{3}

Substituted aminocarbamoyltriazoles I (R = Cl, H, COC6H4Cl-4; R1 = COC6H4R3, COPh, H, Cl, R3 = 4-Cl, 4-F, 4-cyano, 4-CO2Me, 4-CCl:CCl2, 4-Br, 4-iodo; R1 = COC6H3Cl2-3,4, COC6H3Cl2-2,6, etc.; R2 = H, Cl, F, Br) were prepared and evaluated in vivo for anticoccidial activity. Thus, N-alkylation of 5-amino-4-carbamoyl-1,2,3-triazole with benzene derivs. II (R4 = Br) gave I. Cyclization of II (R4 = N3) with 2-cyanoacetamide also gave I. I (R = R2 = Cl, R1 = COC6H4Cl-4) is a highly effective coccidiostat. An increase in activity was observed when the CO of the benzophenone moiety is flanked by halogens as in I (R = R2 = Cl, R1 = COC6H4Cl-4; R = R2 = Cl, R1 = COPh).

IT 95-81-8 615-65-6

(bromination of)

RN 95-81-8 HCAPLUS

CN Benzenamine, 2-chloro-5-methyl- (9CI) (CA INDEX NAME)

RN 615-65-6 HCAPLUS

CN Benzenamine, 2-chloro-4-methyl- (9CI) (CA INDEX NAME)

IT 135340-78-2P

(preparation and cyanation of)

RN 135340-78-2 HCAPLUS

CN Benzenamine, 2-bromo-6-chloro-4-methyl- (9CI) (CA INDEX NAME)

IT 52215-41-5P

(preparation and diazotization-chlorination of)

RN 52215-41-5 HCAPLUS

CN Benzenamine, 3-fluoro-5-methyl- (9CI) (CA INDEX NAME)

SOURCE:

DOCUMENT TYPE:

OTHER SOURCE(S):

LANGUAGE:

GΙ

```
108-70-3P
IΤ
        (preparation, lithiation, carboxylation, and acylation of)
     108-70-3 HCAPLUS
RN
CN
     Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)
CC
     28-10 (Heterocyclic Compounds (More Than One Hetero Atom))
     Section cross-reference(s): 1
IT
     95-81-8
               106-43-4
                          108-88-3, reactions 615-65-6
        (bromination of)
IT
     135340-78-2P
        (preparation and cyanation of)
IT
     52215-41-5P
        (preparation and diazotization-chlorination of)
     108-70-3P
                93857-90-0P
ΙT
        (preparation, lithiation, carboxylation, and acylation of)
L64 ANSWER 28 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN
                         1991:163624 HCAPLUS Full-text
ACCESSION NUMBER:
DOCUMENT NUMBER:
                         114:163624
TITLE:
                         Halogenation using quaternary ammonium
                         polyhalides, XXIX. Chlorination of aromatic
                         amines with benzyltrimethylammonium
                         tetrachloroiodate and deamination of the
                         chloro-substituted aromatic amines
AUTHOR(S):
                         Kakinami, Takaaki; Noazu, Takashi; Yonemaru,
                         Satoshi; Okamoto, Tsuyoshi; Shinmasu, Yoichi;
                         Kajigaeshi, Shoji
CORPORATE SOURCE:
```

755, Japan

CASREACT 114:163624

44 - 9

Journal Japanese

Dep. Chem. Biol. Eng., Ube Tech. Coll., Ube,

Nippon Kagaku Kaishi (1991), (1),

CODEN: NKAKB8; ISSN: 0369-4577

AB The reaction of aromatic amines, e.g., I with a calculated amount of benzyltrimethylammonium tetrachloroiodate in AcOH at room temperature or at 70° gave chloro-substituted aromatic amines, e.g., II in good yields. The reaction of the chloro-substituted aromatic amines with sodium nitrite and phosphinic acid in 18 N sulfuric acid at 0 .apprx. 5° gave the deamination products, e.g., III.

IT 626-43-7

(chlorination of, with benzyltrimethylammonium tetrachloroiodate)

RN 626-43-7 HCAPLUS

CN Benzenamine, 3,5-dichloro- (9CI) (CA INDEX NAME)

IT 108-70-3P

(preparation of)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

CC 25-4 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds) IT 88-74-4, 2-Nitroaniline 95-51-2, 2-Chloroaniline 95-76-1 99-09-2, 3-Nitroaniline 99-52-5 99-55-8 100-01-6, 4-Nitroaniline, reactions 106-40-1, 4-Bromoaniline 106-47-8, 4-Chloroaniline, reactions 108-42-9, 3-Chloroaniline 118-92-3, 2-Aminobenzoic acid 150-13-0, 4-Aminobenzoic acid 536-90-3. 3-Methoxyaniline 554-00-7 591-19-5, 3-Bromoaniline 608-27-5 608-31-1 615-36-1, 2-Bromoaniline 621-33-0, 3-Ethoxyaniline 626-43-7

(chlorination of, with benzyltrimethylammonium tetrachloroiodate)

IT 87-40-1P **108-70-3P** 608-93-5P 618-62-2P 634-90-2P 16582-38-0P 18708-70-8P 19393-96-5P 19752-55-7P 23399-88-4P 89692-81-9P

(preparation of)

L64 ANSWER 29 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1990:458966 HCAPLUS Full-text

DOCUMENT NUMBER: 113:58966

TITLE: Quinolonecarboxylic acid derivatives and their

preparation as bactericides

INVENTOR(S): Masuzawa, Kuniyoshi; Suzue, Seigo; Hirai,

Keiji; Ishizaki, Takayoshi

PATENT ASSIGNEE(S): Kyorin Pharmaceutical Co., Ltd., Japan

SOURCE: U.S., 11 pp. Cont.-in-part of U.S. Ser. No.

26,194, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4894458	Α	19900116	US 1988-233363	
•				1988 0818
			<	
JP 62215572	A2	19870922	JP 1986-59016	
				1986
				0317
		•	<	
PRIORITY APPLN. INFO.:			JP 1986-59016 A	7
				1986
		•		0317
			<	
			US 1987-26194 E	32
				1987
				0316

OTHER SOURCE(S): GI

CASREACT 113:58966; MARPAT 113:58966

R³ CO2H

AB Title compds. I (R = alkyl; R1 = C3-6 cycloalkyl, alkyl, haloalkyl, alkenyl, hydroxyalkyl, alkylamino, Ph; R2 = H, halo, O2N, H2N; R3 = halo; R4 = halo, azetidino, pyrrolidino, piperidino, (thio)morpholino, (un)substituted (homo)piperazino, etc.) and pharmaceutically acceptable salts, are prepared I (R = Me, R1 = cyclopropyl, R2 = H, R3 = R4 = F), 3-tert-butoxycarbonylaminopyrrolidine, DBU and anhydrous MeCN were refluxed for 18 h to give I (R = Me, R1 = cyclopropyl, R2 = H, R3 = F, R4 = 3-amino-2-

pyrrolidinyl) (II). In vitro against Bacillus subtilis the min. inhibitory concentration of II was 0.025 μ g/mL vs. 0.05 μ g/mL for ciprofloxacin.

IT 112822-79-4P

(preparation and reaction of, in preparation of antibacterials)

RN 112822-79-4 HCAPLUS

CN Benzenamine, 5-bromo-2,4-difluoro-3-methyl- (9CI) (CA INDEX NAME)

$$\mathsf{Br} \overset{\mathsf{F}}{\underset{\mathsf{NH}_2}{\bigvee}} \mathsf{Me}$$

IT 118-69-4, 2,6-Dichlorotoluene

(reaction of, in preparation of antibacterials)

RN 118-69-4 HCAPLUS

CN Benzene, 1,3-dichloro-2-methyl- (9CI) (CA INDEX NAME)

IC ICM C07D401-04

INCL 546156000

CC 27-17 (Heterocyclic Compounds (One Hetero Atom))

Section cross-reference(s): 1

IT 51676-76-7P 112822-76-1P 112822-77-2P 112822-78-3P 112822-79-4P 112822-81-8P 112822-82-9P 112822-83-0P 112822-84-1P 112822-85-2P 112822-86-3P 112822-87-4P 112822-88-5P 112822-89-6P 112822-90-9P 112822-91-0P

112822-93-2P 112822-94-3P 112822-96-5P

(preparation and reaction of, in preparation of antibacterials)

IT 105-53-3, Diethyl malonate 110-85-0, Piperazine, reactions 118-69-4, 2,6-Dichlorotoluene 765-30-0, Cyclopropylamine 99724-19-3 107610-69-5 107610-73-1

(reaction of, in preparation of antibacterials)

L64 ANSWER 30 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1990:440475 HCAPLUS Full-text

DOCUMENT NUMBER:

113:40475

TITLE:

Antibacterial 8-methylquinolonecarboxylic acid

derivative and its preparation

INVENTOR(S): Masuzawa, Kuniyasu; Suzue, Seigo; Hirai,

Keiji; Ishizaki, Takayoshi

PATENT ASSIGNEE(S):

Kyorin Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	API	PLICATION NO.	DATE
	_				
JP 02019377	A2	19900123	JP	1988-168888	1 2 2 2
					1988 0708
				<-~	0700
PRIORITY APPLN. INFO.:			JP	1988-168888	
					1988
					0708
				<	

OTHER SOURCE(S):

MARPAT 113:40475

GI

AB The title compound I was prepared by reaction of quinolone II (R = H, alkyl) with pyrrolidine derivs. A mixture of II (R = H) and 3,4-cis-3-tert-butoxycarbonylamino-4-methylpyrrolidine, and DBU in MeCN was stirred and refluxed for 30 h to give, after deprotection with F3CO2H, cis-I. cis-I in vitro exhibited an MIC of 0.39 μg/mL against Pseudomonas aeruginosa IFO 12689.
IT 112822-79-4P, 5-Bromo-2,4-difluoro-3-methylaniline (preparation and reaction of, in preparation of antibacterial agent)
RN 112822-79-4 HCAPLUS

Benzenamine, 5-bromo-2,4-difluoro-3-methyl- (9CI) (CA INDEX NAME)

CN

IT 118-69-4, 2,6-Dichlorotoluene

(reaction of, in preparation of antibacterial agent)

RN 118-69-4 HCAPLUS

CN Benzene, 1,3-dichloro-2-methyl- (9CI) (CA INDEX NAME)

IC ICM C07D401-04 ICS A61K031-47 ICA C07D211-52; C07D215-56 27-17 (Heterocyclic Compounds (One Hetero Atom)) CC Section cross-reference(s): 1 51676-76-7P, 2,6-Dichloro-3,5-dinitrotoluene IT 112822-76-1P, 2,6-Difluoro-3,5-dinitrotoluene 112822-77-2P 112822-78-3P, 3-Bromo-2,6-difluoro-5-nitrotoluene 112822-79-4P, 5-Bromo-2, 4-difluoro-3-methylaniline 112822-81-8P 112822-82-9P, 3-Bromo-2,5,6-trifluorotoluene 112822-83-0P, 2,4,5-Trifluoro-3-methylbenzonitrile 112822-84-1P 112822-85-2P, 2,4,5-Trifluoro-3-methylbenzoic acid 112822-86-3P 112822-88-5P 112822-87-4P 112822-89-6P 112822-90-9P 112822-91-0P 112822-92-1P 114174-34-4P (preparation and reaction of, in preparation of antibacterial agent) 105-53-3 **118-69-4**, 2,6-Dichlorotoluene 122-51-0, Ethyl IT orthoformate 765-30-0, Cyclopropylamine 107610-69-5 107610-73-1 (reaction of, in preparation of antibacterial agent)

L64 ANSWER 31 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1989:173109 HCAPLUS Full-text

DOCUMENT NUMBER: 110:173109

TITLE: Preparation of quinolinonecarboxylates as

bactericides

INVENTOR(S): Ueda, Hiraki; Miyamoto, Hisashi; Yamashita,

Hiroshi; Tone, Hitoshi

PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 81 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 287951	A2	19881026	EP 1988-105959	
				1988 0414
			<	0414
EP 287951	A3	19900613		
EP 287951	B1	19960703	C IP	
R: CH, DE, ES, US 5563138	A A		us 1988-179239	
				1988
				0408
US 5591744	А	19970107	< US 1988-179300	
				1988
				0408

				<	
JP 01230558		A2	19890914	JP 1988-91121	1988
					0413
TD 06006557		D.4	19941130	<	
JP 06096557 EP 565132		B4 A2		EP 1993-107626	
					1988
				<	0414
EP 565132		А3			
EP 565132 R: CH.	DE. 1		20001025 GB, IT, LI,	NI. SE	
ES 2091180	,			ES 1988-105959	
					1988 0414
				<	0414
EP 823413		A2	19980211	EP 1997-120444	1988
					0414
EP 823413		7.3	19981209	<	•
EP 823413		B1			
R: CH, ES 2152936		ES, FR, T3	GB, IT, LI,	NL, SE ES 1993-107626	
ES 2132936		13	20010216	ES 1993-10/626	1988
					0414
ES 2172734		Т3	20021001	< ES 1997-120444	
					1988
				<	0414
SG 97777		A1	20030820	SG 1999-120	1000
					1988 0414
GC 101541		7.1	20040120	<	
SG 101541		A1	20040130	SG 2002-3819	1988
					0414
DK 8802076		A	19881017	< DK 1988-2076	
					1988
				<	0415
DK 170640		B1	19951120	av 1000 100260	
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CN 1053666		В	20000621	<	
US 5495020		Α	19960227	US 1990-562034	
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JP 03115264		A2	19910516	JP 1990-217386	1990
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JP 03135930		A2	19910610	< JP 1990-217385	
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JP 07047575 US 5290934	В4 А	19950524 19940301	ΠC	1991-711273		
05 3230334	r.	10040001	05	1991-711273		1991
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DK 9201014	А	19920813	DΚ	< 1992-1014		
DN 3201014	11	13320013	DI	1552 1014		1992
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DK 171820	В1	19970623		<		
JP 07138232	A2	19950530	JP	1994-86368		
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JP 07165636	A2	19950627	JP	1994-238865		
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JP 2523092	B2	19960807				
US 5723648	A	19980303	US	1996-676034		1006
						1996 0705
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US 5811576	A	19980922	US	1997-922108		1997
						0903
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PRIORITY APPLN. INFO.:			JP	1987-94198	A	1987
						0416
			TD	<	70	
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						0424
			.тр	< 1987-108361	Α	
			01	130, 100301	А	1987
						0430
			.TP	< 1987-126598	Α	
			01	1307 120030	11	1987
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						1987
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			JP	1987-176126	Α	
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						1112

US	< 1988-179239	A3	
	<		1988 0408
US	1988-179300	А3	1988
7.5	<		0408
JP	1988-91121		1988 0413
EP	< 1993-107626	А3	0.20
			1988 0414
US	< 1989-401617	А3	1989
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US	1990-535344	В1	1990
ΤD	< 1990-217385		0608
Ų£	1330 217303		1990 0817
US	< 1996-676034	А3	
			1996 0705

OTHER SOURCE(S):

MARPAT 110:173109

x R4 O CO2F

<--

The title compds. I [R = H, alkyl; R1 = alkenyl, thienyl; (substituted) alkyl, cyclopropyl, Ph; R2 = (substituted) 5- to 9-membered heterocyclyl; R3 = H, halo, alkyl; R4 = alkyl, halo; R1R3 = CHR5CH2O; R5 = H, alkyl; X = halo; except R3, R4 are not both = halo; when R3 = H, R4 = alkyl] are prepared, e.g., by cyclization. of anilines II (R6 = alkyl). Treatment of 3-(4-methyl-1-piperazinyl)-4-fluoro-2,5-dimethyl-6-nitro-N- cyclopropylaniline with EtoCH:CH(CO2Et)2 at 150° gave II (R1 = cyclopropyl; R2 = 4-methyl-1-piperazinyl; R3 = R4 = Me; X = F; R6 = Et), and a solution of the latter in Ac2O was heated with concentrated H2SO4 at 10-60° to give I (R = Et, R1-R4, X unchanged), which was saponified to the give the free acid (III). III had min. inhibitory concns. of 0.049 and 0.78 (no units given) against Staphylococcus aureus and S. aeruginosa, resp. An injection solution was formulated containing 200 mg III, 250 mg glucose, and H2O to make 5 mL.

IT 367-34-0, 2,4,5-Trifluoroaniline (methylthiomethylation of, by di-Me sulfide)
RN 367-34-0 HCAPLUS
CN Benzenamine, 2,4,5-trifluoro- (9CI) (CA INDEX NAME)

$$F$$
 NH_2

RN 119915-59-2 HCAPLUS CN Benzenamine, 2,3,5-trifluoro-4-methyl- (9CI) (CA INDEX NAME)

RN 119916-10-8 HCAPLUS
CN Benzenamine, 2,4,5-trifluoro-3,6-dimethyl- (9CI) (CA INDEX NAME)

RN 119916-16-4 HCAPLUS
CN Benzenamine, 2,4-difluoro-3,6-dimethyl- (9CI) (CA INDEX NAME)

$$\underset{H_{2}N}{\text{Me}}\underset{F}{\underbrace{\qquad \qquad \qquad \qquad \qquad \qquad }}F$$

RN 119916-20-0 HCAPLUS CN Benzenamine, 3,4,6-trifluoro-2-methyl- (9CI) (CA INDEX NAME)

RN 119916-26-6 HCAPLUS
CN Benzenamine, 2,4,5-trifluoro-3-methyl- (9CI) (CA INDEX NAME)

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F Me
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IC
     ICM C07D215-56
     ICS C07D498-04; C07D401-04; C07D413-04; A61K031-47; A61K031-535
ICI
     C07D498-04, C07D265-00, C07D221-00
CC
     27-17 (Heterocyclic Compounds (One Hetero Atom))
     Section cross-reference(s): 1
IT
     104-94-9, 4-Methoxyaniline
                                  141-43-5, reactions 367-25-9
     , 2,4-Difluoroaniline
                             616-46-6, 2-Aminothiophene
                                                           870-24-6,
     2-Chloroethylamine hydrochloride
                                        2749-11-3
        (amination by, of (ethoxymethylene)malonate)
IT
     367-34-0, 2,4,5-Trifluoroaniline
        (methylthiomethylation of, by di-Me sulfide)
IT
     118-69-4, 2,6-Dichlorotoluene
        (nitration of, in preparation of quinolinonecarboxylate
        bactericides)
IT
     18583-89-6P
                   29682-46-0P, 2,6-Dichloro-3-nitrotoluene
     59382-59-1P, Methyl 2-methyl-3-nitrobenzoate 76350-70-4P
     , 2,4-Difluoro-3-methylaniline
                                      79562-49-5P, 2,6-Difluoro-3-
     nitrotoluene
                    114152-18-OP, 2,3,6-Trifluoro-5-nitrotoluene
     119915-41-2P, 2-Methyl-3,4,6-trifluorobenzoyl chloride
     119915-42-3P
                    119915-43-4P
                                   119915-44-5P
                                                   119915-45-6P
     119915-46-7P
                    119915-47-8P
                                   119915-48-9P
                                                   119915-49-0P
     119915-50-3P
                    119915-51-4P
                                   119915-52-5P
                                                   119915-53-6P
     119915-54-7P
                    119915-55-8P
                                   119915-56-9P
                                                   119915-57-0P
     119915-58-1P, 2,3,6-Trifluoro-4-nitrotoluene 119915-59-2P
     119915-60-5P
                    119915-61-6P 119915-62-7P
                                                   119915-63-8P
     119915-64-9P
                    119915-65-0P
                                   119915-66-1P
                                                   119915-67-2P
     119915-68-3P
                    119915-69-4P
                                   119915-70-7P
                                                   119915-71-8P
     119915-72-9P
                    119915-73-0P
                                   119915-74-1P
                                                   119915-75-2P
     119915-76-3P
                    119915-77-4P
                                   119915-78-5P
                                                   119915-79-6P
     119915-80-9P
                    119915-81-0P
                                   119915-82-1P
                                                   119915-83-2P
     119915-84-3P
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                                                   119915-87-6P
                    119915-89-8P
     119915-88-7P
                                   119915-90-1P
                                                   119915-91-2P
     119915-92-3P
                    119915-93-4P
                                   119915-94-5P
                                                   119915-95-6P
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     119916-13-1P
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     119916-18-6P
                    119916-19-7P 119916-20-0P
                                                 119916-21-1P,
     2-Methyl-3,4,6-trifluorobenzonitrile
                                            119916-22-2P,
     2-Methyl-3,4,6-trifluorobenzoic acid
                                            119916-24-4P
     119916-25-5P, 2,3,6-Trifluorotoluene 119916-26-6P,
     2,4,5-Trifluoro-3-methylaniline
                                       119916-27-7P
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     119916-29-9P
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     119916-37-9P
                    119916-38-0P
                                   119916-39-1P
                                                   119916-40-4P
                    119916-42-6P
                                                   119916-44-8P
     119916-41-5P
                                   119916-43-7P
        (preparation and reaction of, in preparation of quinolinonecarboxylate
        bactericides)
```

ACCESSION NUMBER: 1987:511093 HCAPLUS Full-text

DOCUMENT NUMBER: 107:111093

TITLE: Applied studies of pesticides in lysimeter

plant/soil systems following application of carbon-14 labeled compounds, with particular

reference to leaching behavior

AUTHOR(S): Scheunert, I.; Korte, F.; Reiml, D.

CORPORATE SOURCE: Inst. Oekol. Chem., Ges. Strahlen Umweltforsch

m.b.H. Muenchen, Neuherberg, Fed. Rep. Ger. Schriftenreihe des Vereins fuer Wasser-,

Boden- und Lufthygiene (1987),

68 (Grundwasserbeeinflussung Pflanzenschutzm.),

313-22

CODEN: SVWLAE; ISSN: 0300-8665

DOCUMENT TYPE: Journal LANGUAGE: German

SOURCE:

The fate of 14C-labeled pesticides applied to soil in field lysimeters was assessed in long-term expts. Samples of leaching water were collected at the bottom (60 cm) of the lysimeter. After application of [14C]aldrin, leached radioactivity peaked after .apprx.1.5 yr and fell to low levels after .apprx.5 yr, although some was still evident after 16.5 yr. Of several aldrin degradation products present in the soil, only dihydrochlordene dicarboxylic acid was sufficiently hydrophilic to be leached. When [14C]buturon was applied in 2 successive years, leached radioactivity peaked immediately after the 2nd application and declined steadily thereafter for 11 yr, at which time 4-chloroaniline (I) accounted for 15% of the label. When labeled I was applied to lysimeters, leached radioactivity peaked after 1.5 yr and was undetectable after 3.5 yr; 16% of the radioactivity in the leaching water was conjugated I. After application of [14C]pentachloronitrobenzene, leached label peaked after 2 yr, and was still detectable after 10 yr. After 8.5 yr, about 41% of the radioactivity was assignable to 32 chlorinated compds.

IT 95-76-1P, 3,4-Dichloroaniline 108-70-3P,

1,3,5-Trichlorobenzene 527-20-8P, Pentachloroaniline

608-27-5P, 2,3-Dichloroaniline 5930-28-9P,

2,6-Dichloro-4-aminophenol

(pentachloronitrobenzene degradation product, leaching of, from soil)

RN 95-76-1 HCAPLUS

CN Benzenamine, 3,4-dichloro- (9CI) (CA INDEX NAME)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

RN 527-20-8 HCAPLUS
CN Benzenamine, 2,3,4,5,6-pentachloro- (9CI) (CA INDEX NAME)

RN 608-27-5 HCAPLUS CN Benzenamine, 2,3-dichloro- (9CI) (CA INDEX NAME)

RN 5930-28-9 HCAPLUS
CN Phenol, 4-amino-2,6-dichloro- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

Benzenamine, 4-chloro- (9CI) (CA INDEX NAME)

CN

CC 5-6 (Agrochemical Bioregulators)
 Section cross-reference(s): 19

IT 87-40-1P, 2,4,6-Trichloroanisole 88-06-2P, 2,4,6-Trichlorophenol 95-57-8P, 2-Chlorophenol 95-76-1P, 3,4-Dichloroaniline 100-66-3DP, Anisole, dichloro derivative 106-48-9P, 4-Chlorophenol 108-43-0P, 3-Chlorophenol 108-70-3P,

1,3,5-Trichlorobenzene 120-14-9P, 3,4-Dimethoxybenzaldehyde
121-33-5P, Vanillin 527-20-8P, Pentachloroaniline
539-03-7P 555-16-8P, 4-Nitrobenzaldehyde, biological studies
608-27-5P, 2,3-Dichloroaniline 634-90-2P 933-78-8P,
2,3,5-Trichlorophenol 2621-62-7P 5930-28-9P,
2,6-Dichloro-4-aminophenol 6130-75-2P, 2,4,5-Trichloroanisole
6851-44-1P 6975-29-7P, 2,4-Dichloroacetanilide 29191-52-4DP,
Anisidine, chloro derivs. 50375-10-5P, 2,3,6-Trichloroanisole
54135-81-8P, 2,3,5-Trichloroanisole 54135-82-9P,
3,4,5-Trichloroanisole (pentachloronitrobenzene degradation product, leaching of, from soil)

IT 106-47-8P, 4-Chloroaniline, biological studies 82-68-8P, Pentachloronitrobenzene 309-00-2P, Aldrin 3766-60-7P, Buturon (residues of, leaching of, from soil)

L64 ANSWER 33 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1987:84102 HCAPLUS Full-text

DOCUMENT NUMBER: 106:84102

TITLE: Cobalt carbonyl-catalyzed polycarbonylation of

aryl halides in sodium methoxide/methanol

under photostimulation

AUTHOR(S): Kashimura, Tsugunori; Kudo, Kiyoshi; Mori,

Sadayuki; Sugita, Nobuyuki

CORPORATE SOURCE: Inst. Chem. Res., Kyoto Univ., Uji, 611, Japan

SOURCE: Chemistry Letters (1986), (6), 851-4

CODEN: CMLTAG; ISSN: 0366-7022

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 106:84102

AB Cobalt carbonyl-catalyzed carbonylation of mono- and polychloro- and bromobenzenes and their derivs. occurred in NaOMe/MeOH under photostimulation to give Me esters of polycarboxylic acids. E.g., 3,4-Cl2C6H3CO2Me was irradiated in NaOMe/MeOH in the presence of Co2(CO)8 to give 1,2,4- (MeO2C)3C6H3. Carbonylation at the ortho position (to another halogen atom or carboxyl group) proceeds in high selectivity.

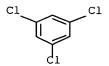
IT 108-70-3, 1,3,5-Trichlorobenzene 615-36-1,

2-Bromoaniline

(photocarbonylation of, Me esters from)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)



RN 615-36-1 HCAPLUS

CN Benzenamine, 2-bromo- (9CI) (CA INDEX NAME)

CC 25-18 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

IT 87-61-6, 1,2,3-Trichlorobenzene 95-46-5, 2-Bromotoluene 95-49-8, 2-Chlorotoluene 95-50-1, 1,2-Dichlorobenzene 95-94-3, 1,2,4,5-Tetrachlorobenzene 106-46-7 108-70-3, 1,3,5-Trichlorobenzene 120-82-1, 1,2,4-Trichlorobenzene 541-73-1, 1,3-Dichlorobenzene 578-57-4, 2-Bromoanisole 583-53-9, 1,2-Dibromobenzene 610-94-6, Methyl 2-bromobenzoate 610-96-8, Methyl 2-chlorobenzoate 615-36-1, 2-Bromoaniline 694-80-4, 2-Chlorobromobenzene 766-51-8, 2-Chloroanisole 2905-68-2, Methyl 3,4-dichlorobenzoate

L64 ANSWER 34 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1986:590558 HCAPLUS Full-text

(photocarbonylation of, Me esters from)

35112-28-8, Methyl 2,4-dichlorobenzoate

DOCUMENT NUMBER: 105:190558

TITLE: New azoolefins and their acidic cleavage to

aryldiimines

AUTHOR(S): Kirschke, Klaus; Moeller, Angela; Schmitz,

Ernst

CORPORATE SOURCE: Zentralinst. Org. Chem., Dtsch. Akad. Wiss.,

Berlin-Adlershof, DDR-1199, Ger. Dem. Rep.

106727-86-0

SOURCE: Journal fuer Praktische Chemie (Leipzig) (

1985), 327(6), 893-92

CODEN: JPCEAO; ISSN: 0021-8383

DOCUMENT TYPE: Journal LANGUAGE: German

OTHER SOURCE(S): CASREACT 105:190558

GI

AB Pyrazolinespirooxiranones I (R = Ph, 2,5-Cl2C6H3, 2,4,6-Cl3C6H2) underwent ring opening with NaOMe to give RN:NC(NH2):CHCO2Me (II). II were cleaved under amidic conditions. The main products of the cleavage of II (R = 2,4,6-Cl3C6H2) with MeOH-HCl are N, 1,3,5-Cl3C6H3, 2,4,6-Cl3C6H2NH2 and 2,4,6-Cl3C6H2NHNH2. Intermediates of the cleavage of II were aryldimines which were trapped with PhCHO to give BzNHNHR (R = 2,5-Cl2C6H3, 2,4,6-Cl3C6H2).

IT 108-70-3P 634-93-5P

(formation of, in cleavage of amino(trichlorophenylazo)propenoa te)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

RN 634-93-5 HCAPLUS

CN Benzenamine, 2,4,6-trichloro- (9CI) (CA INDEX NAME)

CC 25-5 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 28

IT**108-70-3P 634-93-5P** 2724-66-5P 5329-12-4P

18490-44-3P

(formation of, in cleavage of amino(trichlorophenylazo)propenoa

L64 ANSWER 35 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1984:406801 HCAPLUS Full-text

DOCUMENT NUMBER:

101:6801

TITLE: INVENTOR(S): Halo-anilines Ratton, Serge

PATENT ASSIGNEE(S):

Rhone-Poulenc Agrochimie, Fr.

SOURCE:

Fr. Demande, 11 pp. CODEN: FRXXBL

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2529198	A1	19831230	FR 1982-11617	1982
			<- -	0629
FR 2529198	В1	19850329	_ -	
IL 68943	A1	19860731	IL 1983-68943	
				1983 0609
			< 	
EP 98783	A 1	19840118	EP 1983-420103	
				1983
				0621
			<	
EP 98783	B1	19850821		
R: AT, BE, C	H, DE, F	R, GB, IT, L	I, LU, NL, SE	
AT 15030	E	19850915	AT 1983-420103	

						1983 0621
				<		
ZA 8304690	Α	19840328	ZA	1983-4690		
						1983
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CA 1209589	A1	19860812	CA	1983-431209		
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DK 8302971	Α	19831230	DK	1983-2971		
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DK 161069	В	19910527				
DK 161069	С	19911118				
JP 59013750	A2	19840124	JP	1983-116831		
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JP 02058253	B4	19901207		•		
BR 8303461	Α	19840207	BR	1983-3461		
						1983
						0628
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DD 210030	A5	19840530	DD	1983-252467		
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ES 523638	A1	19840816	ES	1983-523638		
						1983
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US 4508922	Α	19850402	US	1983-508716		
						1983
						0628
				<		
ни 32330	0	19840730	HU	1983-2363		
						1983
						0629
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HU 190495	В	19860929				
PRIORITY APPLN. INFO.:			FR	1982-11617	Α	
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			EP	1983-420103	Α	
						1983
						0621
				<		
OTHER SOURCE(S):	MARPAT	101:6801				

OTHER SOURCE(S): MARPAT 101

AB Halobenzenes were treated with NH3 and catalysts obtained from Cu and 8-hydroxyquinolines to yield anilines I ($n=0,\ 1,\ 2,\ 3,\ 4,\ 5;\ X=$ same or different halo; R=H, alkyl, alkoxy). Thus, 1,3,5-Cl3C6H3 was treated with NH3, CuCl, and 8-hydroxyquinoline to give 3,5-Cl2C6H3NH2.

IT 108-70-3

(ammonolysis of, catalysts for)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

$$C1$$
 $C1$

IT 626-43-7P

(preparation of)

RN 626-43-7 HCAPLUS

CN Benzenamine, 3,5-dichloro- (9CI) (CA INDEX NAME)

IC C07C087-60; C07C085-04

CC 25-4 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

IT **108-70-3** 108-90-7, reactions

(ammonolysis of, catalysts for)

IT 626-43-7P

(preparation of)

L64 ANSWER 36 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1984:209256 HCAPLUS Full-text

DOCUMENT NUMBER:

100:209256

TITLE:

High-resolution PCB analysis: synthesis and chromatographic properties of all 209 PCB

congeners

AUTHOR(S):

Mullins, Michael D.; Pochini, Cynthia M.; McCrindle, Shelia; Romkes, Marjorie; Safe,

Stephen H.; Safe, Lorna M.

CORPORATE SOURCE:

Large Lakes Res. Stn., U. S. Environ. Prot.

Agency, Grosse Ile, MI, 48138, USA

Environmental Science and Technology (

1984), 18(6), 468-76

CODEN: ESTHAG; ISSN: 0013-936X

DOCUMENT TYPE: Journal LANGUAGE: English

AB This paper reports the synthesis and spectroscopic properties of all the mono-, di-, tri-, tetra-, penta-, hexa-, and heptachlorobiphenyls and completes the synthesis of all 209 polychlorinated biphenyls (PCBs). The retention times and molar response factors of the 209 PCGs were determined relative to a reference standard, octachloronaphthalene. The retention times for these compds. generally increased with increasing Cl content, and it was apparent that within a series of isomers there was an increase in retention time with increasing meta and para and decreasing ortho substitution. By use of a 50-m narrow bore fused silica capillary column coated with SE-54, it was possible to sep. 187 PCB congeners, and only 11 pairs of compds. were not fully resolved. With some addnl. anal. improvements, isomer-specific PCB anal. can be utilized to determine the composition of com. PCBs and accurately follow the fate and distribution of these pollutants within the global ecosystem.

IT 108-70-3

SOURCE:

(coupling of, with diazotized aniline or chloroanilines)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

IT 626-43-7

(diazotization-coupling of, with benzene or chlorobenzenes)

RN 626-43-7 HCAPLUS

CN Benzenamine, 3,5-dichloro- (9CI) (CA INDEX NAME)

CC 25-3 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 19, 59, 60, 80

IT 71-43-2, reactions 87-61-6 95-50-1 95-94-3 106-46-7

108-70-3 108-90-7, reactions 120-82-1 541-73-1

608-93-5 634-66-2 634-90-2

(coupling of, with diazotized aniline or chloroanilines)

IT 62-53-3, reactions 95-51-2 95-76-1 95-82-9 106-47-8,

reactions 108-42-9 527-20-8 554-00-7 608-27-5 608-31-1

626-43-7 634-67-3 634-83-3 634-91-3 634-93-5

636-30-6 654-36-4 3481-20-7 88963-39-7

(diazotization-coupling of, with benzene or chlorobenzenes)

L64 ANSWER 37 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1984:191552 HCAPLUS Full-text

DOCUMENT NUMBER: 100:191552

TITLE: Aromatic chlorine derivatives

INVENTOR(S): Lerke, Andrzej; Pilecka, Danuta; Kopka, Ewa;

Raatz, Bernard; Stasiak, Jan; Kubiak, Alfons

PATENT ASSIGNEE(S): Zaklady Chemiczne "Organika-Zachem", Pol.

SOURCE: Pol., 4 pp.

CODEN: POXXA7
OCCUMENT TYPE: Patent

DOCUMENT TYPE: Patent LANGUAGE: Polish

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.		KIND	DATE	APPLICATION NO.	DATE
PL 120348		B1	19820227	PL 1978-211630	
					1978
					1211
				<	
PRIORITY APPLN.	INFO.:			PL 1978-211630	
					1978
					1211

Chlorobenzenes were prepared from anilines by Sandmeyer diazotization in the presence of 4-9:1 NaCl-CuCl. The process was illustrated in terms of a

numbered diagram. Data were given for conversion of 4,3-Me(O2N)C6H3NH2, 2,5-Me(O2N)C6H3NH2, 3,2-ClMeC6H3NH2, 5,2-ClMeC6H3NH2, and 2-MeC6H4NH2 into the

<--

corresponding chlorobenzenes.

IT 87-60-5

AΒ

(Sandmeyer reaction of)

RN 87-60-5 HCAPLUS

CN Benzenamine, 3-chloro-2-methyl- (9CI) (CA INDEX NAME)

IT 118-69-4P

(preparation of)

RN 118-69-4 HCAPLUS

CN Benzene, 1,3-dichloro-2-methyl- (9CI) (CA INDEX NAME)

CC 25-3 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
IT 87-60-5 95-53-4, reactions 95-79-4 99-55-8
119-32-4
(Sandmeyer reaction of)
IT 89-59-8P 95-49-8P 95-73-8P 118-69-4P 121-86-8P
(preparation of)

L64 ANSWER 38 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1984:50832 HCAPLUS Full-text

DOCUMENT NUMBER: 100:50832

TITLE: Synthesis and characterization of twenty-two

purified polychlorinated dibenzofuran

congeners

AUTHOR(S): Safe, Stephen H.; Safe, Lorna M.

CORPORATE SOURCE: Coll. Vet. Med., Texas A and M Univ., College

Station, TX, 77843, USA

SOURCE: Journal of Agricultural and Food Chemistry (

1984), 32(1), 68-71

CODEN: JAFCAU; ISSN: 0021-8561

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 100:50832

AB Polychlorinated dibenzofurans (PCDF) were prepared by the base-catalyzed cyclization of the corresponding hydroxypolychlorinated biphenyl (PCB) precursors containing ortho chloro and hydroxy substituents on the 2 Ph rings. The hydroxy PCBs were prepared from the methoxy analogs by the diazo coupling of either chlorinated anisidines and sym. chlorinated benzenes or of chlorinated anilines and chlorinated anisoles.

IT 95-82-9 554-00-7 608-27-5 608-31-1 634-67-3 634-83-3 636-30-6 3481-20-7

(coupling of, with anisole, and demethylation and ring closure of)

RN 95-82-9 HCAPLUS

CN Benzenamine, 2,5-dichloro- (9CI) (CA INDEX NAME)

RN 554-00-7 HCAPLUS

CN Benzenamine, 2,4-dichloro- (9CI) (CA INDEX NAME)

RN 608-31-1 HCAPLUS CN Benzenamine, 2,6-dichloro- (9CI) (CA INDEX NAME)

RN 634-67-3 HCAPLUS CN Benzenamine, 2,3,4-trichloro- (9CI) (CA INDEX NAME)

RN 634-83-3 HCAPLUS CN Benzenamine, 2,3,4,5-tetrachloro- (9CI) (CA INDEX NAME)

$$C1 \xrightarrow{\text{NH}_2} C1$$

RN 636-30-6 HCAPLUS CN Benzenamine, 2,4,5-trichloro- (9CI) (CA INDEX NAME)

RN 3481-20-7 HCAPLUS
CN Benzenamine, 2,3,5,6-tetrachloro- (9CI) (CA INDEX NAME)

$$C1$$
 $C1$
 $C1$
 $C1$
 $C1$

IT 108-70-3

(coupling of, with chlorinated anisidine, and demethylation and ring closure of)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

IT 95-03-4 51114-68-2

(coupling of, with chlorinated benzene, and demethylation and cyclization of)

RN 95-03-4 HCAPLUS

CN Benzenamine, 5-chloro-2-methoxy- (9CI) (CA INDEX NAME)

RN 51114-68-2 HCAPLUS

CN Benzenamine, 3-chloro-2-methoxy- (9CI) (CA INDEX NAME)

CC 22-6 (Physical Organic Chemistry)

IT 95-82-9 554-00-7 608-27-5

608-31-1 634-67-3 634-83-3

636-30-6 2683-43-4 **3481-20-7**

(coupling of, with anisole, and demethylation and ring closure of)

IT 95-94-3 106-46-7 **108-70-3** 608-93-5 634-66-2

(coupling of, with chlorinated anisidine, and demethylation and ring closure of)

IT 95-03-4 51114-68-2

(coupling of, with chlorinated benzene, and demethylation and cyclization of)

L64 ANSWER 39 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1982:51945 HCAPLUS Full-text

DOCUMENT NUMBER:

96:51945

TITLE: AUTHOR(S):

Reduction of aryldiazonium salts to arenes Lahoti, R. J.; Parameswaran, V.; Wagle, D. R. Natl. Chem. Lab., Poona City, 411 008, India

CORPORATE SOURCE: SOURCE:

Indian Journal of Chemistry, Section B:
Organic Chemistry Including Medicinal

Chemistry (1981), 20B(9), 767-9 CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE: LANGUAGE:

Journal English

OTHER SOURCE(S):

CASREACT 96:51945

AB Aryldiazonium fluoroborates were smoothly reduced to the corresponding hydrocarbon derivs. by warming with DMF. When the amine has an electron donating substituent, the reaction proceeds at 65°. When the amine has electron withdrawing substituents, the reaction proceeds rapidly at 25-45°. Deamination of 2,4,6-trichlorobenzenediazonium fluoroborate with tetramethylurea gave AcH, an unexpected product, and 3,5-Cl2C6H3Cl. The amines were also deaminated with DMF without separation of the diazonium salt in aqueous or non-aqueous medium.

IT 634-93-5 873-38-1

(diazotization of)

RN 634-93-5 HCAPLUS

CN Benzenamine, 2,4,6-trichloro- (9CI) (CA INDEX NAME)

RN 873-38-1 HCAPLUS

CN Benzenamine, 2-bromo-4-chloro- (9CI) (CA INDEX NAME)

IT 108-70-3P

(preparation of, by reduction of diazonium salt with DMF)

RN 108-70-3 HCAPLUS

$$C1$$
 $C1$

CC 25-27 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 26

ΙT 60-09-3 88-05-1 91-59-8 97-02-9 99-30-9 100-01-6, reactions 102-56-7 145-49-3 610-41-3 **634-93-5** 719-59-5 **873-38-1** 3224-33-7 6925-48-0 (diazotization of)

IT 98-95-3P, preparation 99-65-0P 103-33-3P 108-67-8P, preparation 108-70-3P 117-12-4P 528-29-0P 1016-78-0P 1562-93-2P 80468-92-4P 80468-93-5P (preparation of, by reduction of diazonium salt with DMF)

L64 ANSWER 40 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1982:6344 HCAPLUS Full-text

DOCUMENT NUMBER:

96:6344

TITLE:

Aryl chlorides

INVENTOR(S): PATENT ASSIGNEE(S): Lanet, Jean Claude; Bourdon, Jacques Rhone-Poulenc Industries S. A., Fr.

SOURCE:

Fr. Demande, 12 pp.

CODEN: FRXXBL

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2475535	A1	19810814	FR 1980-2652	
				1980
			<	0207
FR 2475535	B1	19830805		
PRIORITY APPLN. INFO.:			FR 1980-2652 A	1000
				1980 0207
			<	0207

AΒ Aryl chlorides were prepared from corresponding anilines by Sandmeyer halogenation in the presence of metallic Fe and/or and Fe(II) salt. The CuCl-Fe(II) mol ratio was 0.1-5. The surface area of the metallic Fe was $>15~\mathrm{cm}3/\mathrm{L}$ of solution Thus, 2,6-Cl(H2N)C6H3Me was converted to the diazonium salt, which was decomposed in the presence CuCl-Fe or CuCl-FeCl2 to give 2,6-Cl2C6H3Me in 80.2 and 73.6% yield, resp.

IT 87-60-5

(diazotization of)

RN 87-60-5 HCAPLUS

Benzenamine, 3-chloro-2-methyl- (9CI) (CA INDEX NAME) CN

ΙT 118-69-4P

(preparation of)

RN 118-69-4 HCAPLUS

Benzene, 1,3-dichloro-2-methyl- (9CI) (CA INDEX NAME) CN

IC C07C025-02; C07C017-22

CC 25-3 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

IT 62-53-3, reactions **87-60-5** 90-04-0 106-49-0,

reactions

(diazotization of)

IT 118-69-4P 766-51-8P (preparation of)

L64 ANSWER 41 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1981:474712 HCAPLUS Full-text

DOCUMENT NUMBER: 95:74712

TITLE: Synthesis of the octa- and nonachlorobiphenyl isomers and congeners and their quantitation

in commercial polychlorinated biphenyls and

identification in human breast milk

AUTHOR(S): Mullin, M.; Sawka, G.; Safe, L.; McCrindle,

S.; Safe, S.

CORPORATE SOURCE: Large Lakes Res. Stn., EPA, Grosse Ile, MI,

48138, USA

SOURCE: Journal of Analytical Toxicology (1981

), 5(3), 138-42

CODEN: JATOD3; ISSN: 0146-4760

DOCUMENT TYPE: Journal

LANGUAGE: English

GΙ

The synthesis of all possible isomeric nona- and octachlorobiphenyls was accomplished by the Cadogan coupling of com. available or synthetic chlorinated anilines in the presence of excess chlorinated benzenes and isoamyl nitrite. 2,3,4,6-Tetrachloroaniline (I) [654-36-4] was prepared by the chlorination of 2,4,5-trichloroaniline [636-30-6]. The synthetic PCBs were characterized by their proton magnetic resonance and mass spectra and their purities determined by gas chromatog. analyses. The PCB stds. were used to unambiguously identify the deca-, nona-, and octachlorobiphenyls present in human breast milk and in the com. PCB prepns. Aroclor 1268 [11100-14-4], 1262 [37324-23-5], 1260 [11096-82-5], 1254 [11097-69-1], 1248 [12672-29-6], 1242 [53469-21-9], 1016 [12674-11-2], 1232 [11141-16-5] and 1221 [11104-28-2] utilizing high resolution glass capillary gas chromatog.

IT 108-70-3

(reaction of, with chloroanilines)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

$$\overset{\text{Cl}}{\underbrace{\hspace{1cm}}}\overset{\text{Cl}}{\underbrace{\hspace{1cm}}}$$

IT 527-20-8 634-67-3 634-83-3 634-91-3 636-30-6 654-36-4 3481-20-7

(reaction of, with chlorobenzenes)

RN 527-20-8 HCAPLUS

CN Benzenamine, 2,3,4,5,6-pentachloro- (9CI) (CA INDEX NAME)

RN 634-67-3 HCAPLUS

CN Benzenamine, 2,3,4-trichloro- (9CI) (CA INDEX NAME)

RN 634-83-3 HCAPLUS

CN Benzenamine, 2,3,4,5-tetrachloro- (9CI) (CA INDEX NAME)

RN 634-91-3 HCAPLUS CN Benzenamine, 3,4,5-trichloro- (9CI) (CA INDEX NAME)

RN 636-30-6 HCAPLUS

CN Benzenamine, 2,4,5-trichloro- (9CI) (CA INDEX NAME)

RN 654-36-4 HCAPLUS

CN Benzenamine, 2,3,4,6-tetrachloro- (9CI) (CA INDEX NAME)

$$C1$$
 $C1$
 NH_2

RN 3481-20-7 HCAPLUS

CN Benzenamine, 2,3,5,6-tetrachloro- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} c1 & \text{NH}_2 \\ \hline & c_1 & \\ \hline & c_1 & \end{array}$$

CC 4-1 (Toxicology)

Section cross-reference(s): 25

IT 95-94-3 **108-70-3** 120-82-1 608-93-5 634-66-2 634-90-2

(reaction of, with chloroanilines)

IT 527-20-8 634-67-3 634-83-3 634-91-3 636-30-6 654-36-4 3481-20-7

(reaction of, with chlorobenzenes)

L64 ANSWER 42 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1981:419101 HCAPLUS Full-text

DOCUMENT NUMBER: 95:19101

TITLE: Polychlorinated biphenyls as inducers of

hepatic microsomal enzymes: effects of

di-ortho substitution

AUTHOR(S): Parkinson, A.; Robertson, L. W.; Safe, Lorna;

Safe, S.

CORPORATE SOURCE: Guelph-Waterloo Cent. Grad. Work Chem., Univ.

Guelph, Guelph, ON, N1G 2W1, Can.

SOURCE: Chemico-Biological Interactions (1981

), 35(1), 1-12

CODEN: CBINA8; ISSN: 0009-2797

DOCUMENT TYPE: Journal LANGUAGE: English

GI

$$c1$$
 $c1$
 $c1$
 $c1$
 $c1$
 $c1$
 $c1$

AΒ All of the 13 possible PCB isomers and congeners substituted at both para positions, at least 2 meta positions (but not necessarily on the same ring), and at 2 ortho positions were synthesized and tested as rat hepatic microsomal enzyme inducers. The effects of the compds. were evaluated by measuring microsomal benzo[a]pyrene hydroxylase (B[a]P hydroxylase) [9037-52-9], 4chlorobiphenyl hydroxylase (4-CBP hydroxylase) [77967-77-2], 4dimethylaminoantipyrine N-demethylase (DMAP N-demethylase) [73299-01-1], and NADPH-cytochrome c reductase [9023-03-4] activities, the cytochrome b5 [9035-39-6] content and the relative peak intensities and spectral shifts of the CO and ethylisocyanide(EIC)-difference spectra of ferrocytochrome P 450. The results were compared to the effects of administering phenobarbitone (PB), 3-methylcholanthrene (MC) and PB + MC. At dose levels of 150 µmol/kg, all of the PCB congeners, except 2,3',4,4',5',6-hexachlorobiphenyl [59291-65-5], significantly enhanced hepatic microsomal cytochrome P 450 [9035-51-2] content, B[a]P hydroxylase and/or DMAP N-demethylase activities compared to the control (corn oil-treated) animals. Only 5 of these compds., namely 2,3,4,4',5,6-hexa- [41411-63-6], 2,2',3,3',4,4'-hexa- [38380-07-3], 2,2',3',4,4',5-hexa- [35694-06-5], 2,3,3',4,4',6-hexa [74472-42-7], and 2,2',3,3',4,4',5- heptachlorobiphenyl (I) [52663-74-8], enhanced microsomal B[a]P hydroxylase, 4-CBP hydroxylase, NADPH-cytochrome c reductase, and DMAP N-demethylase activities in a manner consistent with a mixed pattern of induction. Thus, PCB isomers and congeners substituted at both para positions, at least 2 meta positions, at 2 ortho positions and containing a

2,3,4-trichloro substitution pattern on 1 ring are mixed-type inducers; in addition the effects of 2,3,4,4',5,6-hexachlorobiphenyl were also consistent with a mixed pattern of induction.

IT 108-70-3

(reaction of, with haloanilines)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

IT 95-76-1 106-47-8, biological studies

554-00-7 634-67-3 634-83-3

634-91-3 636-30-6

(reaction of, with halobenzenes)

RN 95-76-1 HCAPLUS

CN Benzenamine, 3,4-dichloro- (9CI) (CA INDEX NAME)

RN 106-47-8 HCAPLUS

CN Benzenamine, 4-chloro- (9CI) (CA INDEX NAME)

RN 554-00-7 HCAPLUS

CN Benzenamine, 2,4-dichloro- (9CI) (CA INDEX NAME)

RN 634-67-3 HCAPLUS

CN Benzenamine, 2,3,4-trichloro- (9CI) (CA INDEX NAME)

RN 634-83-3 HCAPLUS

CN Benzenamine, 2,3,4,5-tetrachloro- (9CI) (CA INDEX NAME)

RN 634-91-3 HCAPLUS

CN Benzenamine, 3,4,5-trichloro- (9CI) (CA INDEX NAME)

RN 636-30-6 HCAPLUS

CN Benzenamine, 2,4,5-trichloro- (9CI) (CA INDEX NAME)

CC 4-3 (Toxicology)

Section cross-reference(s): 25

IT 87-61-6 **108-70-3** 608-93-5 634-66-2 634-90-2

(reaction of, with haloanilines)

IT **95-76-1 106-47-8**, biological studies

554-00-7 634-67-3 634-83-3

634-91-3 636-30-6 62720-28-9

(reaction of, with halobenzenes)

L64 ANSWER 43 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1981:139338 HCAPLUS Full-text

DOCUMENT NUMBER: 94:139338

TITLE: Synthesis of monosubstituted chlorobenzenes by

photoinduced dechlorination

AUTHOR(S): Mansour, Mohammed; Wawrik, Silvia; Parlar,

Harun; Korte, Friedhelm

CORPORATE SOURCE:

Inst. Oekol. Chem., Ges. Strahlen- und

Umweltforsch. m.b.H. Muenchen,

Freising-Attaching, Fed. Rep. Ger.

SOURCE:

Chemiker-Zeitung (1980), 104(11),

339-40

CODEN: CMKZAT; ISSN: 0009-2894

DOCUMENT TYPE:

Journal

LANGUAGE:

German

OTHER SOURCE(S):

CASREACT 94:139338

AB Irradiating dichlorobenzenes C12C6H3R (R = H, Me, CH2OH, MeO, OH, NH2, Ph) (22 compds.), in MeOH above 230 nm resulted in monodechlorination to give C1C6H4R in 5-67% yield.

IT 95-76-1 95-82-9 118-69-4 554-00-7

(photolytic monodechlorination of)

RN 95-76-1 HCAPLUS

CN Benzenamine, 3,4-dichloro- (9CI) (CA INDEX NAME)

RN 95-82-9 HCAPLUS

CN Benzenamine, 2,5-dichloro- (9CI) (CA INDEX NAME)

RN 118-69-4 HCAPLUS

CN Benzene, 1,3-dichloro-2-methyl- (9CI) (CA INDEX NAME)

RN 554-00-7 HCAPLUS

CN Benzenamine, 2,4-dichloro- (9CI) (CA INDEX NAME)

IT 95-51-2P 108-42-9P

(preparation of, by photodechlorination of dichloroaniline)

RN 95-51-2 HCAPLUS

CN Benzenamine, 2-chloro- (9CI) (CA INDEX NAME)

RN 108-42-9 HCAPLUS

CN Benzenamine, 3-chloro- (9CI) (CA INDEX NAME)

CC 25-2 (Noncondensed Aromatic Compounds)

IT 87-65-0 95-50-1 95-73-8 **95-76-1** 95-77-2

95-82-9 106-46-7 **118-69-4** 541-73-1

554-00-7 583-78-8 591-35-5 1777-82-8 1805-32-9

1984-59-4 1984-65-2 16605-91-7 19398-61-9 33284-50-3

33719-74-3 34883-41-5

(photolytic monodechlorination of)

IT 95-51-2P 108-42-9P

(preparation of, by photodechlorination of dichloroaniline)

L64 ANSWER 44 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1980:471153 HCAPLUS Full-text

DOCUMENT NUMBER:

93:71153

TITLE:

Photoinduced deuteration of monosubstituted

dichlorobenzenes

AUTHOR(S):

Mansour, Mohammed; Parlar, Harun; Korte,

Friedhelm

CORPORATE SOURCE:

Inst. Oekol. Chem., Ges. Strahlen- und

Umweltforsch. m.b.H. Muenchen,

Freising-Attaching, D-8050, Fed. Rep. Ger.

SOURCE:

Chemosphere (1980), 9(1), 59-60

CODEN: CMSHAF; ISSN: 0045-6535

DOCUMENT TYPE:

Journal

LANGUAGE:

German

AB Dichlorobenzene isomers and their monosubstituted derivs. (30 compds.) underwent exchange of one of the Cl atoms with D by photolyzing in CD3OD for 10-240 min. Product yields were <67%.

(deuteration of, monodechlorination in)

RN 95-76-1 HCAPLUS

CN Benzenamine, 3,4-dichloro- (9CI) (CA INDEX NAME)

RN 95-82-9 HCAPLUS

CN Benzenamine, 2,5-dichloro- (9CI) (CA INDEX NAME)

RN 118-69-4 HCAPLUS

CN Benzene, 1,3-dichloro-2-methyl- (9CI) (CA INDEX NAME)

RN 554-00-7 HCAPLUS

CN Benzenamine, 2,4-dichloro- (9CI) (CA INDEX NAME)

RN 608-27-5 HCAPLUS

CN Benzenamine, 2,3-dichloro- (9CI) (CA INDEX NAME)

RN 608-31-1 HCAPLUS

CN Benzenamine, 2,6-dichloro- (9CI) (CA INDEX NAME)

IT 74383-34-9P 74383-35-0P 74383-36-1P 74383-37-2P 74383-38-3P

(preparation of)

RN 74383-34-9 HCAPLUS

CN Benzen-2-d-amine, 4-chloro- (9CI) (CA INDEX NAME)

RN 74383-35-0 HCAPLUS

CN Benzen-2-d-amine, 5-chloro- (9CI) (CA INDEX NAME)

$$\bigcup_{c_1}^{\mathsf{D}} \mathsf{NH}_2$$

RN 74383-36-1 HCAPLUS

CN Benzen-3-d-amine, 4-chloro- (9CI) (CA INDEX NAME)

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RN
    74383-37-2 HCAPLUS
CN
    Benzen-2-d-amine, 6-chloro- (9CI) (CA INDEX NAME)
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RN
    74383-38-3 HCAPLUS
CN
    Benzen-2-d-amine, 3-chloro- (9CI) (CA INDEX NAME)
```

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CC
    25-3 (Noncondensed Aromatic Compounds)
    87-65-0 95-50-1 95-76-1 95-77-2 95-82-9
IT
    106-46-7 118-69-4 541-73-1 554-00-7
    583-78-8 591-35-5 608-27-5 608-31-1
    611-06-3 874-42-0 1194-65-6 1777-82-8 1805-32-9
              1984-65-2 3209-22-1 6287-38-3 16605-91-7
    1984-59-4
    19398-61-9 25186-47-4 32768-54-0 33284-50-3 33719-74-3
               34883-41-5
    34883-39-1
       (deuteration of, monodechlorination in)
ΙT
    2401-28-7P 13122-34-4P 15733-68-3P 19256-46-3P
                                                         19256-47-4P
    74383-21-4P
                74383-22-5P
                               74383-23-6P
                                           74383-24-7P
    74383-25-8P
                74383-26-9P
                               74383-27-0P 74383-28-1P
    74383-29-2P 74383-30-5P
                               74383-31-6P
                                            74383-32-7P
    74383-33-8P 74383-34-9P 74383-35-0P
    74383-36-1P 74383-37-2P 74383-38-3P
    74383-39-4P
                 74383-40-7P
                               74383-41-8P
                                            74383-42-9P
                 74398-87-1P
    74383-43-0P
                               74398-88-2P
       (preparation of)
L64 ANSWER 45 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
                       1979:574945 HCAPLUS Full-text
DOCUMENT NUMBER:
                       91:174945
TITLE:
```

AUTHOR(S):

Synthesis of 2,4-dimethoxy-5-chloroaniline Boc, I.; Palea, R.; Arion, D.; Todoran, M.

CORPORATE SOURCE:

Inst. Politeh. "Traianvuia", Timisoara, Rom.

SOURCE:

Lucr. Teh.-Stiint.: Chim. Tehnol. Chim., Ses. Comun. Festivalului "Cintarea Rom." (

1977), 143-6. Inst. Politeh. "Traian

Vuia": Timisoara, Rom.

CODEN: 41KIAX

DOCUMENT TYPE:

Conference

LANGUAGE:

Romanian

AB Nitration of a mixture of chlorobenzenes gave 2,4,5-Cl3C6H2NO2, which was methoxylated (MeOH-MeONa) and then reduced (Fe-aqueous FeCl2) to give 5,2,4-Cl(MeO)2C6H2NO2.

IT 108-70-3

(nitration of)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

IT 97-50-7P

(preparation of)

RN 97-50-7 HCAPLUS

CN Benzenamine, 5-chloro-2,4-dimethoxy- (9CI) (CA INDEX NAME)

CC 25-10 (Noncondensed Aromatic Compounds)

IT 87-61-6 95-50-1 106-46-7 **108-70-3** 120-82-1

541-73-1 634-66-2 634-90-2

(nitration of)

IT 97-50-7P

(preparation of)

L64 ANSWER 46 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1979:71845 HCAPLUS Full-text

DOCUMENT NUMBER: 90:71845

TITLE: Partial amination of sym-trichlorobenzene with

copper catalyst and trialkylamine

AUTHOR(S): Kamiyama, Tsutomu; Enomoto, Saburo; Inoue,

Masami

CORPORATE SOURCE: Fac. Pharm. Sci., Toyama Med. Pharm. Univ.,

Toyama, Japan

SOURCE: Yuki Gosei Kagaku Kyokaishi (1978),

36(9), 784-8

CODEN: YGKKAE; ISSN: 0372-770X

DOCUMENT TYPE: Journal LANGUAGE: Japanese

OTHER SOURCE(S): CASREACT 90:71845

AB In the Cu-catalyzed amination of sym-trichlorobenzene (I) with aqueous NH3 the presence of trialkylamines, e.g., Et3N, Pr3N, increased the yield of 3,5-dichloroaniline (II) relative to 3,5-diaminochlorobenzene (III). For example, heating a mixture of 5 g of I, 25 g of 28% NH4OH, 1 g of Cu, and 3 g of Et3N at 250° for 2 h converted 67.4% of I to II, III, and 1,3-dichlorobenzene in relative yields of 0.6, 86.9, and 12.5%, resp. Without Et3N, the relative yields were 2.9, 36.4, and 60.7% resp., and the conversion was 69.5%.

IT 108-70-3

(amination of, catalytic)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

$$C1$$
 $C1$

IT 626-43-7P

(preparation of, by amination of trichlorobenzene, catalytic)

RN 626-43-7 HCAPLUS

CN Benzenamine, 3,5-dichloro- (9CI) (CA INDEX NAME)

CC 25-4 (Noncondensed Aromatic Compounds)

IT 87-61-6 95-50-1 106-46-7 **108-70-3** 120-82-1

541-73-1

(amination of, catalytic)

IT **626-43-7P** 33786-89-9P

(preparation of, by amination of trichlorobenzene, catalytic)

L64 ANSWER 47 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1979:54646 HCAPLUS Full-text DOCUMENT NUMBER: 90:54646

TITLE: Chloroanilines

INVENTOR(S): Enomoto, Saburo; Inoue, Masami; Ueyama,

Tsutomu

PATENT ASSIGNEE(S): Seitetsu Chemical Industry Co., Ltd., Japan;

Sumitomo Chemical Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 53121725	A2	19781024	JP 1977-37814	1977
				0401
JP 60048500	B4	19851028	<	
PRIORITY APPLN. INFO.:			JP 1977-37814 A	

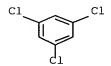
AΒ Chloroanilines were prepared by partial substitution of polychlorobenzenes with NH3 in the presence of Cu-containing substances and tertiary amines. Thus, 1,3,5-Cl3C6H3 (I) 5, 28% aqueous NH3 29, Cu 1, and 30% aqueous Et3N 5 parts were autoclaved 2 h at 200° to give 29.0 mol% I, 41.9 mol% 3,5-Cl2C6H3NH2, 29.1% 3,5-(H2N)2C6H3Cl, and traces of m-Cl2C6H4.

IT 108-70-3

(amination of, chloroanilines from)

RN 108-70-3 HCAPLUS

Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME) CN



IT 626-43-7P

(preparation of)

RN626-43-7 HCAPLUS

Benzenamine, 3,5-dichloro- (9CI) (CA INDEX NAME) CN

IC C07C087-60

CC 25-4 (Noncondensed Aromatic Compounds)

ΙT 108-70-3

(amination of, chloroanilines from)

IT 626-43-7P 33786-89-9P (preparation of)

L64 ANSWER 48 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN 1979:38660 HCAPLUS Full-text ACCESSION NUMBER:

DOCUMENT NUMBER:

90:38660

TITLE:

3,5-Dihaloanilines

INVENTOR(S):

Jersak, Ulrich; Scheuermann, Horst

PATENT ASSIGNEE(S):

BASF A.-G., Fed. Rep. Ger.

SOURCE:

Ger. Offen., 9 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. PATENT NO. KIND DATE DATE _____ -----

DE 2720316	A1	19781116	DE 1977-2720316	
				1977
				0506
			<	
DE 2720316	C2	19820401		
JP 53137921	A2	19781201	JP 1978-44880	
				1978
				0418
066660		10001100	<	
BE 866662	A1	19781103	BE 1978-187352	1000
				1978
			<- -	0503
FR 2389596	A1	19781201	FR 1978-13075	
FR 2309390	ΑI	19/01201	FR 1976-13073	1978
				0503
			<	3333
FR 2389596	В1	19830718		
СН 633252	Α	19821130	CH 1978-4854	
				1978
				0503
			<	
GB 1601746	Α	19811104	GB 1978-17960	
				1978
				0505
			<	
PRIORITY APPLN. INFO.:			DE 1977-2720316	A
				1977
•			<	0506
			\	

AB 3,5-RR1C6H3NH2 (R, R1 = halo) were prepared by treating 1,3,5-trihalobenzenes with NH3 in the presence of a Cu catalyst. Thus, 25 parts 1,3,5-Cl3C6H3 and 1 part Cu(OAc)2.H2O treated with 50 parts NH3 for 25 h at 120° gave 85% 3,5-Cl2C6H3NH2.

IT 108-70-3

(amination of, catalyst for)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

$$C1$$
 $C1$ $C1$

IT 626-43-7P

(preparation of, by amination of trichlorobenzene)

RN 626-43-7 HCAPLUS

CN Benzenamine, 3,5-dichloro- (9CI) (CA INDEX NAME)

IC C07C087-60

CC 25-4 (Noncondensed Aromatic Compounds)

IT **108-70-3** 626-39-1

(amination of, catalyst for)

IT 626-43-7P

(preparation of, by amination of trichlorobenzene)

L64 ANSWER 49 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1978:546530 HCAPLUS <u>Full-text</u> 89:146530

DOCUMENT NUMBER:

TITLE:

Synthesis of carbon-14-labeled environmental

chemicals

AUTHOR(S):

Sandrock, K.; Attar, A.; Bieniek, D.; Klein,

W.; Korte, F.

CORPORATE SOURCE:

Inst. Oekol. Chem., Ges. Strahlen- und

Umweltforsch. m.b.H., Munich, Fed. Rep. Ger.

SOURCE:

Journal of Labelled Compounds and Radiopharmaceuticals (1978), 14(2),

197-204

CODEN: JLCRD4; ISSN: 0362-4803

DOCUMENT TYPE:

Journal

LANGUAGE:

German

Chlorination (N-chlorosuccinimide) (NCS) of PhNH2-14C gave 80% 2,4,6-C13C6H2NH2-14C whereas chlorination of PhNHAc-14C gave, according to the amount of NCS used, 96% 2,4-C12C6H3NHAc-14C or 66% 4-C1C6H4NHAc-14C and 26% 2-C1C6H4NHAc-14C. Gomberg-Bachmann or Cadogan reaction of diazotized 14C labeled chloroanilines with different chlorobenzenes gave 14C labeled di-, tri-, and pentachlorobiphenyls. E.g., diazotized 2,4-C12C6H3NHAc-14C with 1,3,5-C13C6H3 gave 29% 2,2',4,4',6-pentachlorobiphenyl-14C. On boiling anilinediazonium-14C sulfate, PhOH-14C was prepared, which was chlorinated (NCS) to give 63.2% 2,4,6-C13C6H2OH-14C. C16C6-14C and C15C6NO2-14C were prepared by chlorination (C1/C1SO3H) of PhNO2-14C. Chloralkylene 9-14C was obtained by Friedel-Crafts alkylation of 2,4'-dichlorobiphenyl-14C with Me2CHC1.

IT 40189-47-7P

(preparation of)

RN 40189-47-7 HCAPLUS

CN Benzenamine-14C, 2,4,6-trichloro- (9CI) (CA INDEX NAME)

IT 108-70-3

(reaction of, with diazotized chloroanilines, in preparation of carbon-14 labeled chlorobiphenyl)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

CC 25-10 (Noncondensed Aromatic Compounds)

IT **40189-47-7P** 67471-26-5P 67471-28-7P 67471-29-8P

67471-30-1P 67479-21-4P 67729-45-7P 67729-48-0P

(preparation of)

IT 106-46-7 **108-70-3** 108-90-7, reactions

(reaction of, with diazotized chloroanilines, in preparation of carbon-14 labeled chlorobiphenyl)

L64 ANSWER 50 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1976:559576 HCAPLUS Full-text

DOCUMENT NUMBER:

85:159576

TITLE:

Studies in the chemistry of polyhalobenzene compounds. The synthesis and reactivity of

2,3,5,6- and 2,3,4,5-

tetrachlorobenzenesulfonyl chlorides and

related compounds

AUTHOR(S):

Chivers, Geoffrey E.; Cremlyn, Richard J. W.;

Cronjie, Theo N.; Martin, Roger A.

CORPORATE SOURCE:

Sch. Nat. Sci., Hatfield Polytech.,

Hatfield/Hertfordshire, UK

SOURCE:

Australian Journal of Chemistry (1976

), 29(7), 1573-82

CODEN: AJCHAS; ISSN: 0004-9425

DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 85:159576

GΙ

AB Polychlorobenzenesulfonyl chlorides I (R = Cl, H; Rl = H, Cl) were prepared from the sulfonic acids and PCl5 and amidated to yield sulfonamides II (R2 = H, Me; R3 = PhCH2, Me, Ph, substituted phenyl). I reacted with NaN3 and the sulfonyl azides obtained were treated with Ph3P to give iminophosphoranes III.

IT 95-51-2 106-47-8

(amidation of polychlorobenzenesulfonyl chlorides by)

RN 95-51-2 HCAPLUS

CN Benzenamine, 2-chloro- (9CI) (CA INDEX NAME)

RN 106-47-8 HCAPLUS

CN Benzenamine, 4-chloro- (9CI) (CA INDEX NAME)

IT 108-70-3P

(by desulfonation of trichlorobenzenesulfonic hydrazide)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

CC 25-13 (Noncondensed Aromatic Compounds)

IT 62-53-3, reactions 88-74-4 **95-51-2** 99-09-2

100-46-9 104-94-9 **106-47-8** 109-73-9 124-40-3,

reactions 504-29-0 7664-41-7, reactions

(amidation of polychlorobenzenesulfonyl chlorides by)

IT 108-70-3P

(by desulfonation of trichlorobenzenesulfonic hydrazide)

L64 ANSWER 51 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1976:477777 HCAPLUS Full-text

DOCUMENT NUMBER:

85:77777

TITLE:

Synthesis and structural study of some isomers

of polychlorinated biphenyls

AUTHOR(S):

SOURCE:

Erb, Francoise; Pommery, Jean; Van Aerde,

Christine; Vermeersch, Gaston

CORPORATE SOURCE:

Lab. Hydrol. Toxicol., Fac. Pharm., Lille, Fr.

Bulletin de la Societe Chimique de France (

1976), (5-6, Pt. 2), 964-8

CODEN: BSCFAS; ISSN: 0037-8968

DOCUMENT TYPE:

Journal

LANGUAGE:

French

OTHER SOURCE(S):

CASREACT 85:77777

GΙ

AB Chloroanilines were diazotized and condensed with benzenes I (R, R1, R2, R3, and R4 are independently H or C1) to yield fourteen resp. chlorobiphenyls II (R5, R6, R7, and R8 are independently H or C1).

IT 108-70-3

(condensation reaction of, with chlorobenzediazonium salts, chlorobiphenyls from)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

IT 95-82-9 608-27-5 634-93-5 636-30-6

(diazotization and condensation reaction of, with benzene and chlorobenzenes, chlorobiphenyls from)

RN 95-82-9 HCAPLUS

CN Benzenamine, 2,5-dichloro- (9CI) (CA INDEX NAME)

RN 608-27-5 HCAPLUS

CN Benzenamine, 2,3-dichloro- (9CI) (CA INDEX NAME)

$$\text{Cl} \underbrace{\hspace{1cm}}^{\text{Cl}}_{\text{NH2}}$$

RN 634-93-5 HCAPLUS

CN Benzenamine, 2,4,6-trichloro- (9CI) (CA INDEX NAME)

RN 636-30-6 HCAPLUS

CN Benzenamine, 2,4,5-trichloro- (9CI) (CA INDEX NAME)

CC 25-3 (Noncondensed Aromatic Compounds)

IT 71-43-2, reactions 95-50-1 106-46-7 **108-70-3** 634-66-2

(condensation reaction of, with chlorobenzediazonium salts, chlorobiphenyls from)

IT 95-82-9 608-27-5 634-93-5 636-30-6

(diazotization and condensation reaction of, with benzene and chlorobenzenes, chlorobiphenyls from)

L64 ANSWER 52 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1976:405562 HCAPLUS Full-text

DOCUMENT NUMBER:

85:5562

TITLE:

Anil synthesis. Part 12. On the preparation

of 1,2,3-triarylpropane compounds

AUTHOR(S):

Coviello, Vincenzo; Siegrist, Adolf E.

CORPORATE SOURCE:

Org.-Chem. Inst., Univ. Freiburg, Fribourg,

Switz.

SOURCE:

Helvetica Chimica Acta (1976),

59(3), 802-19

CODEN: HCACAV; ISSN: 0018-019X

DOCUMENT TYPE:

Journal

LANGUAGE:

German

OTHER SOURCE(S):

CASREACT 85:5562

СT

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\$$

AB Schiff bases of aromatic aldehydes react with 2 mole-equivs. 2,5-Cl2C6H3Me or 2 mole-equivs. 2-(3-chloro-4-methylphenyl)-2H- benzotriazoles, -2H-naphtho[1,2-d]triazoles, -oxazoles, or -benzoxazoles in presence of DMF and KOH to give 1,2,3-triarylpropanes, e.g., I.

IT 118-69-4

(reaction with Schiff bases)

RN 118-69-4 HCAPLUS

CN Benzene, 1,3-dichloro-2-methyl- (9CI) (CA INDEX NAME)

IT 780-21-2 10480-32-7 15485-22-0 17099-07-9 17099-20-6 38608-21-8

(reaction with o-chlorotoluene derivs.)

RN 780-21-2 HCAPLUS

CN Benzenamine, 4-chloro-N-(phenylmethylene)- (9CI) (CA INDEX NAME)

RN 10480-32-7 HCAPLUS

CN Benzenamine, 4-chloro-N-[(4-chlorophenyl)methylene]- (9CI) (CA INDEX NAME)

RN 15485-22-0 HCAPLUS

CN Benzenamine, 4-chloro-N-[(4-methoxyphenyl)methylene]- (9CI) (CA INDEX NAME)

RN 17099-07-9 HCAPLUS

CN Benzenamine, 4-chloro-N-[(2-chlorophenyl)methylene]- (9CI) (CA INDEX NAME)

RN 17099-20-6 HCAPLUS

CN Benzenamine, 4-chloro-N-[(3-chlorophenyl)methylene]- (9CI) (CA INDEX NAME)

RN 38608-21-8 HCAPLUS

CN Benzenamine, N-([1,1'-biphenyl]-4-ylmethylene)-4-chloro- (9CI) (CA INDEX NAME)

CC 28-11 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 25

IT 95-73-8 **118-69-4** 1124-05-6 19398-61-9 36843-34-2

38610-35-4 42196-67-8 59425-93-3

(reaction with Schiff bases)

IT **780-21-2** 6206-78-6 **10480-32-7**

15485-22-0 17099-07-9 17099-20-6

38608-21-8 38662-76-9 41855-64-5

(reaction with o-chlorotoluene derivs.)

L64 ANSWER 53 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1975:86163 HCAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 82:86163

TITLE: Synthesis of 2,6-dichlorobenzaldoxime from

4-nitrotoluene

AUTHOR(S): Buchwald, P.; Domnariu, F.

CORPORATE SOURCE: Chem. Pharm. Res. Inst., Cluj, Rom.

SOURCE: Revue Roumaine de Chimie (1974),

19(7), 1221-5

CODEN: RRCHAX; ISSN: 0035-3930

DOCUMENT TYPE: Journal

LANGUAGE: English

AB 2,6-Cl2C6H3CH:NOH (I) was prepared from 4-MeC6H4-NO2, which was chlorinated with Cl in the presence of SbCl5 to give a mixture of 3,4-ClMeC6H4R (II; R = NO2), 3,5,4-Cl2Me-C6H2R (III; R = NO2) and 2,3,5,4-Cl3MeC6HR (IV; R = NO2), which was reduced to a mixture of II (R = NH2), III (R = NH2), and IV (R =

NH2), which was converted by diazotization into a mixture of II (R = H), III (R = H), and IV (R = H). 2,6-Cl2-C6H3Me was separated from the mixture by fractionation and chlorinated in the presence of NCCMe2N:NCMe2CN to give a mixture of 2,6-Cl2C6H3CH2Cl, 2,6-Cl2C6H3CHCl2, and 2,6-Cl2C6-H3CCl3, which was hydrolyzed with H2SO4 and reacted with HONH2.HCl to give 2,4-Cl2C6H3CH2OH, I, and 2,6-Cl2C6H3-CO2H, resp. I was separated by treating the mixture with NaHCO3, then with NaOH.

IT 118-69-4P

(preparation and chlorination of)

RN 118-69-4 HCAPLUS

CN Benzene, 1,3-dichloro-2-methyl- (9CI) (CA INDEX NAME)

IT 95-74-9P 39053-35-5P 54730-35-7P

(preparation and deamination of isomeric mixture containing)

RN 95-74-9 HCAPLUS

CN Benzenamine, 3-chloro-4-methyl- (9CI) (CA INDEX NAME)

RN 39053-35-5 HCAPLUS

CN Benzenamine, 2,3,5-trichloro-4-methyl- (9CI) (CA INDEX NAME)

$$C1$$
 $C1$
 $C1$
 Me

RN 54730-35-7 HCAPLUS

CN Benzenamine, 3,5-dichloro-4-methyl- (9CI) (CA INDEX NAME)

CC 25-15 (Noncondensed Aromatic Compounds)

IT 118-69-4P

(preparation and chlorination of)

IT 95-74-9P 39053-35-5P 54730-35-7P

(preparation and deamination of isomeric mixture containing)

L64 ANSWER 54 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: DOCUMENT NUMBER:

1973:437517 HCAPLUS <u>Full-text</u> 79:37517

TITLE:

Preparation of organic compounds labeled by chlorine-38. I. Inorganic yields of 38Cl in Szilard-Chalmer reactions of aromatic chloro

derivatives

AUTHOR(S):

Kim, You Sun

CORPORATE SOURCE:

Chem. Div., At. Energy Res. Inst., Seoul, S.

Korea

SOURCE:

Journal of the Korean Nuclear Society (

1973), 5(1), 44-54

CODEN: WJHKAW; ISSN: 0372-7327

DOCUMENT TYPE: LANGUAGE: Journal English

To clarify an effective procedure of labeling organic chloro compds. by 38Cl, AB chlorobenzene derivs. (7 kinds), chloronitrobenzenes (6 kinds), chloroanisoles (2 kinds), chloroanilines (3 kinds), chlorotoluenes (3 kinds), benzyl chlorides (4 kinds), and other comparing samples (3 kinds) were irradiated in the TRIGA Mark-II research and the inorg. 38Cl yields were compared with the irradiation times after extracting the inorq. portion with an aqueous alkali solution The relative change between the inorg. 38Cl yield and the irradiation time depended a great deal on the state of the sample; a solid sample gave a lower and steady inorg. yield. The inorg. 38Cl yield decreased in the order chlorobenzene derivs. < chlorotoluene < benzyl chloride < chlorocyclohexane < chloronitrobenzene < chloroaniline. Among the compds. of similar chemical structure, ortho and para isomers gave similar inorg. yields. A linear relation was observed between the inorg. 38Cl yield of homo functional compds. and the number of Cl atoms on the benzene ring. Generally, polychloro substituted derivs. gave a higher yield than those less substituted derivs. The results are discussed and the feasibility of these results for

labeling purposes was criticized. IT 95-03-4 95-51-2 106-47-8

108-70-3 554-00-7 33353-68-3

42138-72-7

(neutron irradiation of, yield of inorg. chlorine-38 in, labeling by Szilard-Chalmers process in relation to)

RN 95-03-4 HCAPLUS

CN Benzenamine, 5-chloro-2-methoxy- (9CI) (CA INDEX NAME)

C1 OMe

RN 95-51-2 HCAPLUS

CN Benzenamine, 2-chloro- (9CI) (CA INDEX NAME)

RN 106-47-8 HCAPLUS

CN Benzenamine, 4-chloro- (9CI) (CA INDEX NAME)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

RN 554-00-7 HCAPLUS

CN Benzenamine, 2,4-dichloro- (9CI) (CA INDEX NAME)

RN 33353-68-3 HCAPLUS

CN Benzenamine, 3,5-dichloro-2-methoxy- (9CI) (CA INDEX NAME)

RN 42138-72-7 HCAPLUS

CN Benzenamine, 2,3,4,5-tetrachloro-6-methoxy- (9CI) (CA INDEX NAME)

CC 75-10 (Nuclear Phenomena)

Section cross-reference(s): 22, 25

IT 57-15-8 76-83-5 87-61-6 88-73-3 89-21-4 **95-03-4**

95-49-8 **95-51-2** 95-94-3 100-00-5 100-14-1

100-44-7 104-82-5 106-43-4 106-46-7 **106-47-8**

108-41-8 **108-70-3** 108-90-7, reactions 120-82-1

121-73-3 541-73-1 542-18-7 **554-00-7** 611-06-3

620-19-9 **33353-68-3 42138-72-7**

(neutron irradiation of, yield of inorg. chlorine-38 in, labeling by Szilard-Chalmers process in relation to)

L64 ANSWER 55 OF 55 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1972:500961 HCAPLUS Full-text

DOCUMENT NUMBER:

CORPORATE SOURCE:

77:100961

TITLE:

Fluorination of 1,2,3-, 1,2,4-, and

1,3,5-trihalobenzenes with potassium fluoride

in dimethyl sulfone

AUTHOR(S):

Shiley, R. H.; Dickerson, D. R.; Finger, G. C.

Illinois State Geol. Surv., Urbana, IL, USA

SOURCE:

Journal of Fluorine Chemistry (1972), Volume Date 1972-1973, 2(1), 19-26

CODEN: JFLCAR; ISSN: 0022-1139

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB 1,2,3- (I), 1,2,4- (II), and 1,3,5-Trifluorobenzene (III) were prepared (12.8, 8.3, and 56.2%, resp.) by reaction of the corresponding trichlorobenzenes with KF or KF-CsF mixts. in Me2SO2. Improved yields of I (23.9%) and II (34.0%) were obtained from chlorofluorobenzene intermediates which were obtained by controling the reaction variables. In the halogen exchange reaction medium, polyfluorobenzenes were unstable.

IT 2613-34-5

(diazotization of)

RN 2613-34-5 HCAPLUS

CN Benzenamine, 3-chloro-2,4-difluoro- (9CI) (CA INDEX NAME)

IT 108-70-3

(fluorination of, with potassium fluoride)

RN 108-70-3 HCAPLUS

CN Benzene, 1,3,5-trichloro- (8CI, 9CI) (CA INDEX NAME)

IT 1435-43-4P

(preparation of)

RN 1435-43-4 HCAPLUS

Benzene, 1-chloro-3,5-difluoro- (7CI, 8CI, 9CI) (CA INDEX NAME) CN

CC 25-3 (Noncondensed Aromatic Compounds)

ΙT 2613-34-5

(diazotization of)

IT 87-61-6 **108-70-3** 120-82-1 2367-91-1 (fluorination of, with potassium fluoride)

ΙT 348-51-6P 348-59-4P 352-33-0P 367-11-3P 367-23-7P 372-18-9P 372-38-3P 462-06-6P 625-98-9P 696-02-6P 1435-43-4P 1435-44-5P 1435-46-7P 1435-48-9P

36556-50-0P 1435-49-0P 1489-53-8P 2268-05-5P 36556-47-5P 38361-37-4P

(preparation of)